

ASA FLIGHT TRAINING

FAR/AIM REGULATIONS



Model	Description	Part No.	Price
26-FAR-AMT	Maint Tech FAR*	13-15300-26	.
26-FAR-FC	Flight Crew FAR*	13-02293-26	.
26-FR-AM-BK	FAR-AIM Book	13-15200-26	.
26-FR-AM-BK	FAR/AIM Book (Case Of 12)	13-15200-26-12	.

*Available In Digital Download.

PILOT TEST PREP BOOKS



Model	Description	Part No.	Price
TP-C-24	Commercial Test Prep	13-01298-25	.
TP-CFI-24	Flight Instructor Test Prep	13-32311-25	.
TP-FE	Flight Engineer Test Prep	13-18451	.
TP-I-24	Instrument Test Prep	13-00974-25	.
TP-P-24	Private Test Prep	13-00984-25	.
TP-UAS	Remote Pilot Test Prep	13-19086-25	.

FAA AMT HANDBOOKS



Model	Description	Part No.	Price
8083-30	AMT General Handbook	13-06257	.
8083-31V1	Airframe Handbook Vol 1	13-13077	.
8083-31V2	Airframe Handbook Vol 2	13-13078	.
AC43.13-1B2B	Aircraft Repairs & Modifications	13-06050	.

AMT TEST GUIDE BOOKS



Model	Description	Part No.	Price
AMA-26	Airframe Test Guide	13-32321-26	.
AMP-26	Powerplant Test Guide	13-32322-26	.
AMG-26	General Test Guide	13-32323-26	.
IA-7	Inspection Auth Test Guide	13-01297	.

*Available In Digital Download.

TEST PREP BUNDLES



Model	Description	Part No.	Price
TPP-AMA-26	Airframe Test Bundle	13-10160-26	.
TPP-AMG-26	General Test Bundle	13-10158-26	.
TPP-AMP-22	Powerplant Test Bundle	13-10162-26	.

*Available In Digital Download.

TEST PREP SOFTWARE & APP



Model	Description	Part No.	Price
TW-AMG-22	AMT General Prepware	13-08679-22	.
TWO-SCL-S	Student Online Prepware Card	13-16215	.
TP-ATP-25	2025 Airline Transport Pilot Test Prep With Prepware Software (Softcover)	13-25711-25	.

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ASA FLIGHT TRAINING

FAA PILOT HANDBOOKS



Model	Description	Part No.	Price
8082-22	Remote Pilot sUAS Study Guide	13-19501	.
8083-13A	Glider Flying Handbook	13-02589	.
8083-15B	Instrument Flying Handbook	13-00986	.
8083-16A	Instrument Procedures Handbook	13-15939	.
8083-16A-2X	Instrument Procedures Handbook E-bundle	13-16213	.
8083-1B	Weight & Balance Handbook	13-01059	.
8083-2	Risk Management Handbook	13-06667	.
8083-21A	Helicopter Flying Handbook	13-00735	.
8083-23	Float & Ski Handbook	13-03470	.
8083-25B	Pilots Handbook Aero Know	13-00983	.
8083-25B-2X	Pilots Handbook Aero Know E-bundle	13-19057	.
8083-3B	Airplane Flying Handbook	13-10219	.
3B-2X	Airplane Flying Handbook E-bundle	13-19681	.
8083-9A	Aviation Instructors Handbook	13-19380	.
ANA	Aerodynamics Naval Aviators	13-01060	.
CUG-12	Aeronautical Chart Users Guide*	13-15497	.

*Available In Digital Download.

VTP TEST PREP VIDEOS



Model	Description	Part No.	Price
VTP-FLIGHT	Flight Maneuvers Video	13-17840	.
VTP-I	Instrument VTP Course	13-12382	.
VTP-SCHOOL	Test Prep Videos For Schools	13-19698	.
VTP-SCHOOL-H	Heli Video For School Use	13-19699	.

FAA TEST & CERT STANDARDS



Model	Description	Part No.	Price
8081-12C	Practical Test Standards Commercial Pilot	13-00980	.
8081-15A	Practical Test Standards: Private Pilot Rotorcraft for Helicopter And Gyroplane	13-02337	.
8081-16B	Commercial & CFI - Helicopter	13-07269	.
8081-5F.7	ATP/Dispatch	13-03575	.
8081-6DS	CFI Single Engine Pts	13-32314	.
8081-9D	CFI Instrument	13-02296	.
ACS-10	Remote Pilot Airman Certificate Standards	13-19089	.
ACS-6B	ACS: Private Pilot Airplane	13-18974	.
ACS-8	ACS: Instrument Rating Airplane	13-18976	.

AMT TEXTBOOKS



Model	Description	Part No.	Price
AMT-G3H	Amt General Textbook	13-00574	.
AMT-P3	Amt Powerplant Textbook	13-00583	.
AMT-STRC3-2X	Airframe Structures E-bundle	13-19049	.
AMT-STRUC-3H	Airframe Structures	13-00581	.
AMT-SYS-3H	Airframe Systems	13-00582	.
COMP-101	Comp Gd To Composites	13-18605	.
COMPOSITE	Advanced Composites*	13-07295	.
MHB-6	Mechanics Handbook	13-02366	.

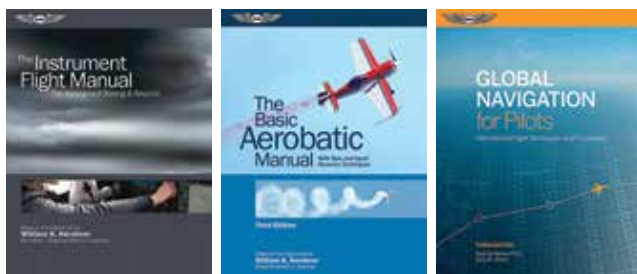
*Available In Digital Download.

ASA AIRMAN KNOWLEDGE TESTING SUPPLEMENTS

Description	Part No.	Price
Commercial Pilot	13-21339	.
Sport / Recreational / Remote and Private Pilot	13-21340	.
AMT and Parachute Rigging	13-21341	.
Flight / Ground And Sport Instructor	13-21342	.

ASA FLIGHT TRAINING

PILOT TEXTBOOKS



Model	Description	Part No.	Price
AERODYN-2	Aerodynamics	13-18972	.
AERODYN-2-2X	Aerodynamics E-bundle	13-18973	.
AIRPT-MGT	Airport Management	13-18534	.
CAP-5	Comp Advanced Pilot*	13-01714	.
FM-ADV-8	Advanced Pilot Flight Manual*	13-32225	.
FM-AERO-2	Basic Aerobatic Manual*	13-32210	.
FM-AERO-3-PD	Basic Aerobatic Manual eBook PDF	13-22611	.
SD-EB	Skydancing: Aerobatic Flight Techniques - Ebook	13-22701	.
FM-CFI-6	Flight Instructor's Manual*	13-32220	.
FM-INST-7	Instrument Flight Manual*	13-32215	.
FM-STU-10	Student Pilot Flight Manual*	13-32230	.
GNP-2	Global Navigation For Pilots	13-01061	.
HELI-FM	Helicopter Flight Maneuvers	13-18467	.
MPT-3	Comp Multiengine Pilot	13-06661	.
PHF-2	Principles Helicopter Flight	13-05799	.
PHF-GRAFX-CD	Principles Of Helicopter Textbook Images CD Rom	13-19084	.
PM-1B	Flight School	13-00982	.
PM-2C	Ground School	13-00978	.
PM-3C	Instrument Flying	13-00979	.
PM-3C-2X	Instrument Flying E-bundle	13-18403	.
PM-ME	Multi Engine Flying	13-18405	.
PM-S-P5	Private Syllabus	13-02264	.
PPT-12	Complete Private Pilot	13-03458	.
PPT-S5	Complete Private Pilot Syllabus	13-02268	.
PRCT-AV-LAW6	Practical Aviation Law	13-05810	.
PRCT-AV-WK6	Practical Aviation Law Workbook	13-05811	.
MPT-4	The Complete Multi Engine Pilot	13-06661	.
SPT	Complete Seaplane Pilot	13-05795	.
VFM-HI-3	Visual Flight Manuvers Blue High Wing	13-02289	.
VFM-LO-3	Visual Flight Manuvers Red Low Wing	13-05854	.
TIPS-EB	Tips To Fly By*	13-22716	.
MSFS-2-EB	Microsoft® Flight Simulator As A Training Aid - Ebook	13-22635	.
DREAM-EB	Dream Aircraft - Ebook	13-22602	.

*Available In Digital Download.

PILOTS GUIDE



Model	Description	Part No.	Price
PG-C-172	Cessna 172 Pilot's Guide	13-01055	.
PG-PA-38	Piper Tomahawk Pilot's Guide	13-01058	.

FAA TEST FIGURES BOOKS



Model No.	Description	Part No.	Price
CT-8080-6A	Flight Engineer Test Figures	13-01293	.
CT-8080-7CY	ATP Test Figs With Addenda	13-16531	.
CT-8080-8D	Inspection Auth. Test Figures	13-02262	.

PILOT KITS



Model	Description	Part No.	Price
GS-PVT-X	Private Pilot On-line Ground School	13-12230	.
PPT-KT	Student Pilot Kit	13-02271	.
PVT-141-KIT	Private Pilot School Kit	13-03128-25	.

TABS FOR FAR / AIM



Description	Part No.	Price
Private Pilot License - VFR - 50 Tabs - 5 Colors	13-25153	.
Private Pilot License - VFR - 50 Tabs - White	13-25154	.
Instrument Flight Rules - IFR - 50 Tabs - 5 Color	13-25155	.
Instrument Flight Rules - IFR - 50 Tabs - White	13-25156	.
Commercial Rating - 49 Tabs - 5 Colors	13-25157	.
Commercial Rating - 49 Tabs - White	13-25158	.
Certified Flight Instructor - CFI - 75 Tabs - 5 Colors	13-25159	.
Certified Flight Instructor - CFI - 75 Tabs - White	13-25160	.

BV

ASA FLIGHT TRAINING

PILOT BOOKS



Model	Description	Part No.	Price
ACC-REV	Accident Review	13-18598	.
ACD	International Aircraft Directory	13-04144	.
AIR-CR2	Air Carrier Operations 2nd Ed	13-05809	.
ATP-INT-2	ATP Tech Interviews	13-05849	.
C21FT	21st Century Flight Training	13-18479	.
CARAVAN	Cessna Caravan*	13-06226	.
CKLIST-6	Checklist For Success*	13-28701	.
CON-FLY-EB	Confident Flying E-Book	13-22594	.
DAT-5	Dictionary Aero Terms*	13-28700	.
FIND	Finding Carla*	13-18892	.
FLIERS	Fliers In Their Own Words	13-02362	.
FLY-CARPET	Flying Carpet*	13-01949	.
FLY-WING-2	Fly The Wing*	13-05791	.
TCHFLT	Teaching Flight	13-22064	.

PILOT BOOKS



Model	Description	Part No.	Price
NIGHT-PD	ASA Sunset To Sunrise	13-23411	.
JOB-SRCH	Your Job Search Partner	13-05844	.
LESSON-PLANS	Lesson Plans Scenario Training	13-19045	.
LESSONS-LOG	Lessons From The Logbook	13-05019	.
NSI-2	Notes Of Seaplane Instructor	13-02367	.
NTC	Notes On Tailwheel Checkout	13-16529	.
PIC	Pilots In Command	13-16523	.
PLT-TEST	Test Pilot 1001 Things	13-05793	.
PP-1	Prof Pilot Vol 1	13-23100	.
PP-2	Prof Pilot Vol 2	13-01443	.
TO-LDG	Takeoffs And Landings	13-05792	.

*Available In Digital Download.

ORAL EXAM GUIDES



ASA Oral Exam Guides were written to help applicants prepare for their oral exams with FAA examiners. Examiners ask a lot of questions during the oral portion of the checkride, and thorough preparation is key to success. Using a question-and-answer format, each Oral Exam Guide lists the questions most likely to be asked by examiners and provides succinct, ready responses. Pilots will find the Oral Exam Guides indispensable tools in both planning for what to expect during the airplane checkride, and mastering the subject matter.

Model	Description	Part No.	Price
OEG-ADX	Aircraft Dispatcher Oral Exam Guide	13-18470	.
OEG-AMT3	Aircraft Oral Exam Guide	13-50165	.
OEG-ATP5-EB	ATP Oral Exam Guide eBook-EB	13-22644	.
OEG-ATP5-PD	ATP Oral Exam Guide eBook- PD	13-22645	.
OEG-BFR7	Flight Review Guide	13-00973	.
OEG-BFR8-EB	Flight Review Guide eBook-EB	13-22646	.
OEG-BFR8-PD	Flight Review Guide eBook-PD	13-22647	.
OEG-C9	Commercial Oral Exam Guide	13-02283	.
OEG-C9-EB	Commercial Oral Exam Guide eBook-EB	13-22648	.
OEG-C9-PD	Commercial Oral Exam Guide eBook-PD	13-22649	.
ASA-OEG-CF19	Flight Instructor Oral Guide	13-02285	.
OEG-H2	Helicopter Oral Guide	13-05853	.
OEG-I8	Instrument Oral Exam Guide	13-00976	.
OEG-ME7	Multi-engine Oral Exam Guide	13-02060	.
OEG-P10	Private Oral Exam Guide	13-00977	.

ASA FLIGHT TRAINING

ASA AVIATION WEATHER HANDBOOK



This important Federal Aviation Administration (FAA) Handbook updates and consolidates information previously available in six different Advisory Circulars: Pilots and dispatchers must learn to deal with all aspects of weather, including how to appreciate good weather, recognize and respect marginal or hazardous weather, and avoid violent weather. This knowledge and the ability to make sound weather decisions are critical to the successful outcome of all flights.

This book discusses each aspect of weather as it relates to aircraft operation and flight safety and provides information on the tools available for flight planning and inflight weather decisions, including observations, analyses, and forecasts.

PaperbackE-Book.....P/N 13-24365
Case of 12 (Paperback).....P/N 13-24365-12
PDF.....P/N 13-24366
E-Book.....P/N 13-24367

ASA ILLUSTRATED GUIDE TO FLYING



Inspired by the effortless soaring of birds, humans have taken to wing as the safest, fastest, and most enjoyable way to travel.

An Illustrated Guide to Flying by Barry Schiff explains the principles and practice of flying with concise critical facts, supported with prolific illustrations and photographs, covering basic flight maneuvers, aircraft engines and flight instruments, navigation, weather, types of aircraft, traffic control, flight rules, and more.

This is an exciting introduction to flying for aspiring pilots of all ages, revealing the mysteries of flight and explaining how pilots deal with their aircraft and the elements through which they fly.

Either as a student, passenger, or future pilot, the reader will enter a fascinating new world that offers challenge, fun, and adventure.

Softcover.....P/N 13-24338
PDF.....P/N 13-24339
Ebook.....P/N 13-24340

BUNDLE OF PILOTS HANDBOOK OF AERONAUTICAL KNOWLEDGE / AIRPLANE FLYING HANDBOOK



Providing basic knowledge essential for all pilots, from beginning students through to the more advanced certificates, this Federal Aviation Administration (FAA) publication introduces readers to the broad spectrum of knowledge required as they progress through pilot training. Studying this book, pilots gain the required knowledge to earn a certificate and understand aerodynamic theory associated with airplane flight. Written

for the pilot preparing for a Remote, Sport, Private, Commercial, or Flight Instructor Pilot Certificate, it is a key reference for all the information necessary to operate an aircraft and to pass the FAA Knowledge Exam and Practical Test (checkride).....P/N 11-18947

AN AVIATORS FIELD GUIDE TO OWNING AN AIRPLANE



In An Aviator's Field Guide to Owning an Airplane, author Jason Blair shares the knowledge and tips he's gained from his many years owning aircraft and assisting numerous customers buy, sell, manage, and maintain their own airplanes. This book incorporates Blair's many years of industry experience as an aircraft owner, active pilot, instructor, and FAA Designated Pilot Examiner to cover the practical details of ownership and offer tips to maximize your use and enjoyment of your aircraft.

You'll discover how to determine the full cost of aircraft ownership, select insurance, consider tax implications, pick an airport to call home, assess and choose aircraft storage, safely move your airplane, manage maintenance work, find and organize important documents, manage and determine the significance of inoperative equipment, evaluate potential modifications for improved performance, upgrade avionics, overhaul or swap an engine, budget for future maintenance, and more.

P/N 13-22457

PREPWARE 5 PRACTICE TESTS - DIGITAL DOWNLOAD



Prepware Practice Test features include:
Realistic test simulation: the actual FAA questions, number of questions, and time allowed for your certificate or rating. Performance graphs let you hone your studies: Review explanations and answers for the entire test and see your grade for each subject. Get your sign-off: Email your results to ASA to receive your sign-off and graduation certificate, or print results for your flight/ground instructor to endorse. Either way you have everything you need to schedule your exam with the testing center. Gain the confidence you need, and save yourself the hassle and expense of retaking exams at the testing center. You can take 5 practice tests. Submit 2 of the 5 practice tests with scores 80% or better to receive your sign-off (AMT applicants taking the General, Airframe, or Powerplant tests will receive a frameable certificate of completion).

P/N 13-22353

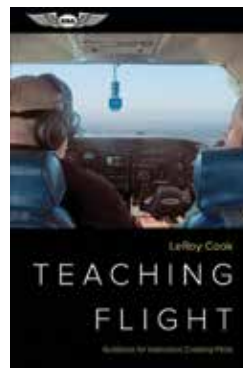
AIRCRAFT SYSTEMS FOR PILOTS



Single-source manual of what pilots should know about basic aircraft systems. Previously published by Jeppesen. Previously published by Jeppesen, Aircraft Systems for Pilots is a single-source manual of what pilots should know about basic aircraft systems. It includes a study of the fundamentals of physical matter (from which airplanes are made) and mechanics (how airplane parts act and react). Study of each type of system allows the professional pilot to stay abreast of the critical learning that must occur upon advancement into management of more complex aircraft.

Softcover Book.....P/N 13-20979
eBook EB.....P/N 13-22556

TEACHING FLIGHT



Beginning or part-time flight instructors (CFIs) are not always fully aware of what to expect as a student pilot progresses through the flight training process. In Teaching Flight, author LeRoy Cook lends his half-century of experience as a guide to motivate, inspire, and mentor new instructors. Flight instructors following his steps will find a mentor in LeRoy Cook, while taking their students from first flight through certification. Teaching Flight offers a plethora of ideas for instructors to keep their students inspired, encouraged, confident, and competent on their road to earning a certificate and rating.

Softcover Book.....P/N 13-22064
eBook EB.....P/N 13-22712
eBook PD.....P/N 13-22713

NAVIGATING WEATHER



Weather radar information is one of the most valuable tools available to pilots to ensure safe, efficient, and comfortable flight operations. Onboard weather radar allows pilots to tactically navigate near and around severe weather with confidence. And with the advent of datalink radar data systems, pilots of all types of aircraft and skill levels can easily access similar vital information. Yet pilots must understand how to use these technologies and their potential flaws to avoid inadvertently getting too close to or penetrating severe weather, which could obviously have detrimental outcomes.

Softcover Book.....P/N 13-23881
eBook EB.....P/N 13-23883
eBook PD.....P/N 13-23884

ASA FLIGHT TRAINING

LOGBOOKS FORMS & RECORDS



13-05759



13-02313



13-01547

Model	Description	Part No.	Price
CT-PPGS-2	Private Pilot Ground School Certificate (10 Pack)	13-02327	.
FP-3	Flight Planner Pad	13-18431	.
FS-KT	Flight Schedule Kit	13-02308	.
FS-60	Flight Schedule Refill Pack	13-02309	.
SA-1	Aircraft Log - Softcover	13-32375	.
SA-2	Aircraft Log - Hardcover	13-32384	.
SA-V2	Avionics Log	13-02315	.
SE-1	Engine Log - Softcover	13-32380	.
SE-2	Engine Log - Hardcover	13-32382	.
SFR-H4	Flight Rec Helicopter	13-01547	.
SFR-IC5	Flight Rec Inst-commercial	13-01551	.
SFR-P5	Flight Rec Private	13-01548	.
SP-10	Pilot Log - Softcover	13-05670	.
SP-30	Pilot Log - Black	13-32365	.
SP-40	Pilot Log - Red	13-32360	.
SP-57	Pilot Log - Blue	13-32355	.
SP-6	Pilot Master Log	13-32392	.
SP-AMT	AMT Logbook	13-02313	.
SP-FC	Flight Crew Logbook	13-18473	.
SP-FLT-2	Aircraft Flight Log	13-03163	.
SP-INK	Pilot Log Pink	13-18545	.
SP-L	Propeller Logbook	13-32370	.
SP-UAS	Pilot Log UAS	13-18544	.

ASA MENTAL MATH FOR PILOTS: 3RD EDITION



In this book you'll learn the tricks of the trade for the areas where pilots have traditionally needed to sharpen their mental math skills: fuel planning, temperature conversions, reciprocal headings, turn radius, crosswind components, time-speed-distance problems, calculating true airspeed, the 60-to-1 rule, and many others. Solve math problems in the cockpit without the use of calculators or even a pencil and paper using

solutions that are simple to use and practical for airborne contingencies. This book will help you stay ahead of the flight with cockpit tools you can use to assist you in planning the flight. Mental math tools and shortcuts allow you to fly and navigate better and more efficiently. On top of all that, these skills help you perform your best in an airline interview.

Softcover Book P/N 13-24629

eBook EB P/N 13-22626

eBook PD P/N 13-22627

ASA REMOTE PILOT ONLINE GROUND SCHOOL



Flying a drone for non-hobby operations requires a Remote Pilot Certificate. A person must successfully pass the Federal Aviation Administration (FAA) Knowledge Exam to earn a Remote Pilot certificate with a small unmanned aircraft systems (sUAS) rating. This course is your key to your success.

With ASA's time-tested and trusted content you'll gain the aeronautical knowledge required to become a safe and competent remote pilot. This convenient on-demand solution is effective for self-study and the organization makes it an easy addition to any instructor-led ground school. The comprehensive curriculum consists of lessons featuring internet-based evaluation, resources, and course tracking, supported with professional multi-media presentations from the leaders in drone training. The Remote Pilot Online Ground School course includes full high definition video content combined with brilliant graphics and special effects throughout. Expert instructors and terrific inflight footage make this course a thoroughly entertaining and motivating learning experience. Available in English and Spanish closed captioning.

Prepare for the Remote Pilot FAA Knowledge Exam, online with this on-demand solution from ASA. From the cloud, to you. Anytime. Anywhere. On any internet-connected device. P/N 13-24636

ASA PRACTICAL TEST STANDARDS - INSTRUMENT RATING AIRPLANE - HELICOPTER AND POWERED LIFT



For Helicopter and Powered Lift applicants only. Instrument Rating Airplane applicants should use the Airman Certification Standard, ACS-8.

The Practical Test Standards are a guide for students, instructors, and FAA-designated examiners to know what is expected of pilots during a checkride.

P/N 13-00985

ASA AIRMAN CERTIFICATION STANDARDS: ATP AND TYPE RATING FOR AIRPLANE



The Airman Certification Standards is the guide for students, instructors, and FAA-designated examiners to know what applicants must know, do, and consider for their FAA Knowledge Exam and practical (checkride) to earn their pilot certificate or rating. Effective June 28, 2019, the ACS adds task-specific knowledge and risk management elements to each Area of Operation and Task. The result is a comprehensive presentation that integrates the standards for what an applicant needs to know, consider, and do in order to pass both the knowledge test and the practical test for a

certificate or rating P/N 13-22175

TURBINE PILOTS FLIGHT MANUAL - FOURTH EDITION



Whether you're preparing for turbine ground school, priming for a corporate or airline interview—or even if you're upgrading into your first personal jet or turboprop—The Turbine Pilot's Flight Manual is designed for you. With precision and a sense of humor, authors Greg Brown and Mark Holt cover all the basics for turbine pilot operations, clearly explaining the differences between turbine aircraft and their piston engine counterparts

P/N 13-22350

ASA AN AVIATORS FIELD GUIDE TO BUYING AN AIRPLANE



In An Aviator's Field Guide to Buying an Airplane, author Jason Blair shares his knowledge and experience gained from purchasing his own aircraft as well as helping numerous customers find, evaluate, and buy the right aircraft for their needs. Blair's many years of industry experience as an aircraft owner, active pilot, instructor, and FAA Designated Pilot Examiner has provided him with specific expertise and insight that he is now sharing with aspiring aircraft owners in this book.

P/N 13-22456

ASA WE HAVE A NO CRASH POLICY



The aircraft we fly and fly in are masterpieces of engineering. They have transformed what was once unimaginable into everyday experience. How is this possible? What lies beneath the global aviation system we have today, and its phenomenal safety record? We Have a No Crash Policy explains the technology and human factors in flying from the pilot's point of view, in an understandable, humorous way.

Soft Cover P/N 13-22230

eBook-PD P/N 13-22637

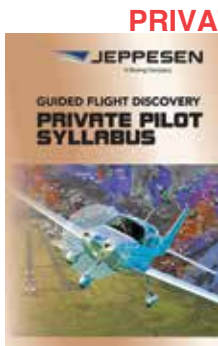
eBook-EB P/N 13-22636

JEPPESEN FLIGHT TRAINING



PRIVATE PILOT MANEUVERS MANUAL

Each maneuver is presented using colorful graphics, step-by-step procedure descriptions, helpful hints, PTS references and study exercises to help you visualize and understand each maneuver you will perform in the airplaneP/N 13-21770



PRIVATE PILOT SYLLABUS

The Private Pilot Syllabus has been updated for FAA-S-ACS-6C tasks that apply to each ground lesson in addition to flight lessons and to align with new textbook content, such as energy management, graphic weather products, and threat and error management. In addition, the syllabus now introduces Competency-Based Training and Assessment (CBTA). Additional features include a step-by-step description of course contents, lesson objectives, flight and ground time allocations for all lessons, and coordination of other academic support materials with your flight training. Provides the framework for Part 141 and Part 61 ground and flight training.
P/N 13-25668

PRIVATE PILOT RECORD FOLDER



From your ground lessons and written exams, to flight maneuvers and flight checks, this record folder effectively tracks all the details during your pilot training - both FAR Part 141 and FAR Part 61. Set of ten.
Single.....P/N 13-01206-1

JEPPESEN I/C RECORD FOLDER



Effectively track all the details during your multi-engine training. From your ground lessons and written exams, to flight maneuvers and flight checks, this record folder effectively tracks all the details during your instrument/commercial training - both FAR Part 141 and FAR Part 61. One folder.
P/N 13-06245

COMMERCIAL PILOT AIRPLANE AND HELICOPTER FAA EXAM PACKAGE

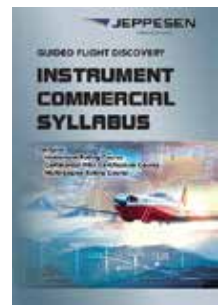


This package contains the FAA Question Bank (reprints of all test questions) for the commercial pilot airplane knowledge test and test supplements (charts, diagrams, and appendices for reference), as well as sample tests and answer sheets.
P/N 13-01227



GFD INSTRUMENT/ COMMERCIAL MANUAL

Jeppesen's Guided Flight Discovery Instrument/ Commercial Manual provides the most complete explanations of aeronautical concepts for professional pilots through the use of colorful illustrations and full-color photos. This primary source for initial study and review includes Principles of Instrument Flight, The Flight Environment, Instrument Charts and Procedures, Aviation Weather and IFR Flight operations and Commercial Pilot Operations, as well as an introductory look at Building Professional Experience. The most comprehensive and visually appealing Instrument/ Commercial manual ever.
P/N 13-21760



INSTRUMENT / COMMERCIAL SYLLABUS

This training syllabus covers the learning objectives and time allocations for both Instrument Rating and Commercial Certificate. The syllabus also contains an option for a Multi-Engine Rating. In addition to the syllabus, this package also contains enrollment notices.
P/N 13-21740



GFD PRIVATE/INSTRUMENT FLITESCHOOL SOFTWARE

FliteSchool Multimedia Software is a complete, interactive home study course for passing the FAA airman knowledge exams. FliteSchool Multimedia Software makes it easy, fast and fun to get a great score on your exam. You learn the material thoroughly and get the highest possible score on your exam while retaining what you learn. Only FliteSchool Multimedia software integrates the complete textual references to the GFD Private and Instrument/Commercial Manual, allowing you easy access to expanded information. Carefully selected graphics and computer animation are combined to help you understand difficult concepts. In addition, all FAA figures are contained on the CD-ROM for easy reference.
GFD Instrument FliteSchool.....P/N 13-100519



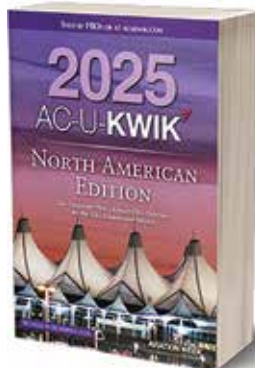
JEPPESEN PRACTICAL TEST STANDARDS

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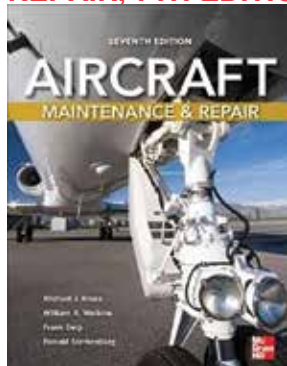
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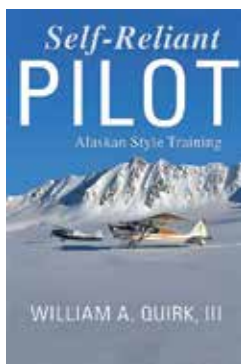
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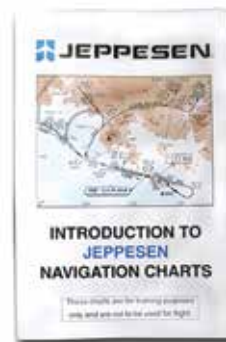


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ASA AVIATORS FIELD GUIDE TO MIDDLE ALTITUDE FLYING

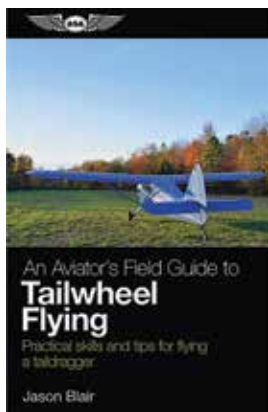


In *An Aviator's Field Guide to Middle-Altitude Flying*, author Jason Blair shares his experience in a variety of piston, twin-engine aircraft commonly used to fly at altitudes between 10,000 and 25,000 feet MSL. This book covers the major phases of flight and the specific considerations for pilots who operate aircraft at these altitudes, including performance and fuel planning, emergencies, descent planning, navigation, weather, aircraft modifications, oxygen use, weight and balance, pilot qualifications, and insurance. With insight not found in other training manuals or part of typical flight training operations, and gained through his many years instructing and giving checkrides, Blair's book will help the pilot owner or

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SoftcoverP/N 13-21257
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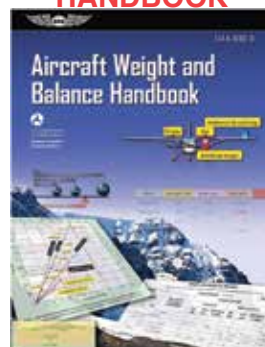
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BookP/N 13-01059

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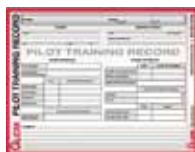
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ATB AIRCRAFT MAINTENANCE

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Description	Paperback Part Number	Price	e-book Part Number	Price
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Powerplant Test Guide	13-15925	.	13-14795	.
Test Guide set of 3	13-23211	.	13-23210	.

GENERAL FAMILIARIZATION MANUALS



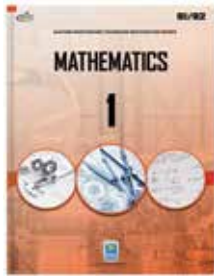
GenFam manuals from ATB and AeroEd are organized by ATA chapters and provide an overview of the systems and structures on that model aircraft including environmental, electrical, fire protection, flight controls, fuel and hydraulic systems, landing gear, oxygen, pneumatic, water and waste, doors, APUs and powerplants common on that aircraft. They are great tools for interview preparation, new hires at airlines and MROs and preparation for systems level classes. Available for the following aircraft.

Model Number	Paperback Part Number	Price	e-book Part Number	Price
737 300-500	13-09021	.	13-05943	--
737 NG	13-23209	---	13-16252	---
747 Classic	13-09025	.	13-05944	--
747-400	13-09026	---	13-05945	.
757	13-09027	---	13-05947	.
767	13-08776	---	13-08775	.
777	13-08083	---	13-08082	.
CRJ 700/900	13-09029	---	13-05950	.

ATB AIRCRAFT MAINTENANCE

EASA AMT TRAINING

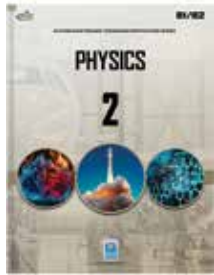
Fully compliant textbooks for the international B1 (Aircraft Mechanic) and B2 (Avionics Technician) licenses with approvals in over 30 countries.



EASA PART 66 MODULE 01 - MATHEMATICS

Module 1 covers arithmetic, algebra, and geometry as they apply to aircraft maintenance. This module contains instruction in basic mathematics as required for the aviation maintenance technician as prescribed for the EASA Part 66 B1 and B2 license as well as the FAA A&P mechanic.

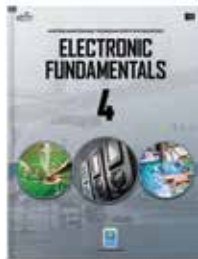
bookP/N 13-23186
e-bookP/N 13-23185



PHYSICS

Module 2 covers matter, mechanics, fluid dynamics, thermodynamics, optics, and wave motion as they apply to aircraft maintenance. This book is fully compliant to EASA Part 66 standards for the B1 aircraft maintenance license and is developed as appropriate for use within a typical 2 year 2400 hour Part 66/147 program.

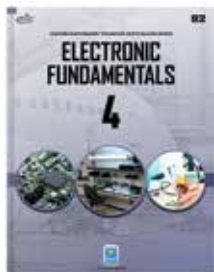
bookP/N 13-23232
e-bookP/N 13-23233



ELECTRICAL FUNDAMENTALS

This book covers basic electrical systems and concepts for the aviation maintenance technician. From basic theory to AC and DC generators and motors, each topic is explained in step by step detail. You will learn by understanding concepts, not just rote memorization and you will learn how and why each skill is useful in the day-day tasks of the aircraft technician in an aviation maintenance environment.

bookP/N 13-23236
e-bookP/N 13-15062



ELECTRONIC FUNDAMENTALS

Module 4 covers semiconductors, transistors, integrated circuits, circuit. This book is fully compliant to EASA Part 66 standards for B1 aircraft maintenance requirements, and is developed as appropriate for use within a typical 2 year 2400 hour Part 147 program.

B1 edition book ...P/N 13-23229
B1 edition e-book P/N 13-16205
B2 edition e-book P/N 13-23205



DIGITAL SYSTEMS

Module 5 covers databusses, logic circuits, computer structure, microprocessors, multiplexing, fiber optics, the electromagnetic environment, digital systems, etc.

Today's aircraft increasingly rely on digital technology and complex electronic systems, not just for instrumentation, navigation, and communications, but today even for flight controls, system monitoring, maintenance planning, and more and more. Fiber optics and fly-by-wire is no longer the exception, but the rule. It is no longer limited to military, but now

the basis of private and commercial aircraft both large and small. This module presents the B1 / B2 or A&P mechanical technician with what he or she needs to know for both a general understanding of these systems and the ability to work around them in an efficient and safe manner.

B1 edition bookP/N 13-23223
B1 edition e-bookP/N 13-23222
B2 edition e-bookP/N 13-23207



MAINTENANCE PRACTICES

Module 7 covers shop practices, tools, test equipment, drawings, wiring practices, riveting, welding, weight & balance, aircraft handling, maintenance procedures, inspection techniques and more. This book is fully compliant as EASA Part 66 module 7 for the B1 license and has been given approvals by numerous EASA based civil aviation authorities.

B1 edition book ...P/N 13-16201
B1 edition e-book P/N 13-22420
B2 edition e-book P/N 13-23224

EASA BASIC AERODYNAMICS: MODULE 8 (CAT-A) - SECURE EBOOK



Cat-A1 Basic Aerodynamics (Module 8) strictly matches the requirements of Part 66 Amendment 2023-989 including its content, sequence, and the required learning levels (L1, 2, or 3) needed for an approved CAT-A maintenance technician program, and is so approved by many national authorities as a part of the training programs of Part 147 schools within their jurisdiction.

Each topic is explained with understandable text and exceptional full color illustrations in a step-by-step detail. You will learn by understanding concepts and how and why each skill is useful in

the day-to-day tasks of the aircraft technician in the aviation maintenance environment.

B1 edition e-bookP/N 13-23237



HUMAN FACTORS

Module 9 covers human factors as they relate to the aircraft maintenance environment including physiology, psychology, communication, team building, safety, etc. Also included in this manual is a detailed description of the the MEDA model (Maintenance Error Decision Aid) developed by The Boeing Company. Included is its philosophy and process, how to develop and implement the program, along with sample MEDA forms and advice on how to complete it while getting the most of the program.

This book is fully compliant as EASA Part 66 module 9 for the B1 and B2 license and has

been given approvals by numerous EASA based civil aviation authorities.

bookP/N 13-15922
e-bookP/N 13-14792



PROFESSIONAL PURSUIT

A set of 400 popular style flashcards with A&P categories of General, Airframe, Powerplant, and Avionics, based on the knowledge required for the FAA A&P exams. Have fun while learning and testing yourself, fellow students, co-workers, and even your boss. Excellent practice for the FAA oral exams. EASA students will also find these an excellent resource

for your Cat-A, B1 and B2 studies. The General category will relate to modules 1, 2, 3, 6, 7, and 8. The Airframe category will relate to module 6, 7, and 11. Powerplant to modules 15, 16, and 17. Avionics to modules 4, 5, 13, and 14.....P/N 13-23202

BV

ATB AIRCRAFT MAINTENANCE

EASA AMT TRAINING

Fully compliant textbooks for the international B1 (Aircraft Mechanic) and B2 (Avionics Technician) licenses with approvals in over 30 countries.



AVIATION LEGISLATION

Module 10 covers Part 145 and 147 organizations, certifying staff, aircraft and parts certification, air operations and continuing airworthiness. For schools and students first exploring the EASA system from non-EASA NAAs, this is also a great way to obtain an initial overview of EASA, its structure, and its differences from more familiar regulatory systems.

e-bookP/N 13-16206

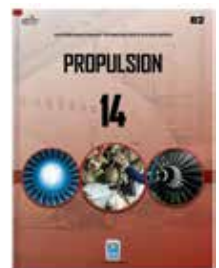


STRUCTURES & SYSTEMS

Module 11 covers turbine airplane systems for the B1 technician from environmental, electrical, fuel, gear, electrical, instrumentation, hydraulics, etc. This book is fully compliant as EASA Part 66 module 11a for the B1 license and has been given approvals by numerous EASA based civil aviation authorities.

bookP/N 13-23235

e-bookP/N 13-23234

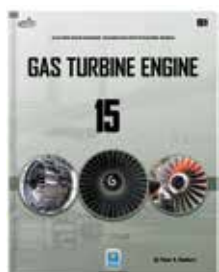


EASA PART 66 MODULE 14 B2 - PROPULSION

This module 14, written for the B2 avionics technician, covers the basics of turbine engines along with increased detail on the electronic controls, and monitoring systems that contribute to the exceptional efficiency and reliability which both industry and the traveling public demands. A basic understanding of each engine system and its relevant components provides the background needed to understand not just the electronic functions, but how and why each electronic system contributes to provide value to overall operations and reliability. Following completion of this module the technician should be familiar with engine starting techniques, basic operations, and the meaning and causes of both normal and abnormal indications.

bookP/N 13-23221

e-bookP/N 13-23220



TURBINE ENGINES

Module 15 covers turbine engine performance, types, sections and systems, operation, indications, inspection, maintenance, storage, and more.

EASA Part 66 compliant Module 15 on Gas Turbine Engine Maintenance for Part 66 B1.1 and B1.3 airplane and helicopter certification.

bookP/N 13-23226



PROPELLERS

An EASA Part 66/147 approved manual on propellers and controls compliant as Module 17A for B-1.1 and B-1.2 students. A very in depth manual on modern propellers and propeller control systems covering from fixed pitch wood through state of the art full feathering, reversing, FADEC controlled metal and composite systems. All systems are covered including various types of pitch control, synchronization, ice control, vibration and resonance, maintenance and testing procedures and preservation and storage techniques.

bookP/N 13-15921

e-bookP/N 13-14790

B1.1 COMPLETE SET OF 13



B1.1 turbine airplane license set includes above modules 1-Math, 2-Physics, 3-Electrical Fundamentals, 4-Electronic Fundamentals, 5-Digital Instrument Systems, 6-Materials and Hardware, 7-Maintenance Practices, 8-Aerodynamics for AMTs, 9-Human Factors, 10-Aviation Legislation, 11-Turbine Aircraft Structures and Systems, 15-Gas Turbine Engines, and 17-Propeller Systems.

e-book set.....P/N 13-23241



AC43.13 1B/2B

Acceptable Methods of Aircraft Inspection and Repair. FAA's "bible" for A&Ps and aircraft homebuilders detailing the proper methods for thousands of maintenance tasks on non-presurized aircraft under 12,500 pounds. Used by every A&P student; required for every light aircraft mechanic, and a constant reference for aircraft builders and all those who do their own maintenance.

bookP/N 13-06923

e-bookP/N 13-05926

BV

ROD MACHADO FLIGHT TRAINING



ROD MACHADO'S HOW TO FLY AN AIRPLANE HANDBOOK

This valuable one-stop handbook contains the information necessary to: Learn the basic fundamentals of flying any airplane. Make flight training easier, less expensive and more enjoyable. Master all the private and commercial checkride maneuvers. Learn the "stick and rudder" philosophy of flying an airplane. Prevent an airplane from accidentally stalling and spinning. Allow you to learn to land an airplane quickly and enjoyably. Make you a better instructor by providing unique teaching strategies and explanations for student training.

Book P/N 13-15937



ROD MACHADO'S PRIVATE / COMMERCIAL PILOT HANDBOOK

Flying is fun, and with Rod Machado's Private/Commercial Pilot Handbook, learning about flying is now fun, as well. This book prepares you for the FAA private pilot knowledge exam and the FAA commercial pilot knowledge exam (when you're ready to study for the commercial exam, of course)

If you want to learn to fly, or even just learn about what makes a plane fly, you'll find this lavishly illustrated, fast-paced book to be the best available guide. Written in a clear and witty style, the Private/Commercial Pilot Handbooks contains more than 1,200 illustrations and photos that are a standalone

education about why we can fly.

Studying for your private pilot oral and knowledge exams? Everything you need is in this book. It's not just a beginner's book—it's a comprehensive and useful reference resource for private and even professional pilots. As one flight student said, "This handbook explains why things are the way they are, in a way that's easy to understand. I learned lots of things in Rod's book that I had not read ANYWHERE else, despite years of reading aviation literature."

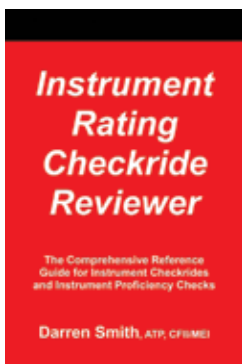
Rod has been teaching people how to fly airplanes since 1973. His highly acclaimed teaching methods have established him as one of aviation's most respected teachers. Using analogies, memory aids, clear and detailed graphics and a little humor, Rod reduces the complexity of all aviation subjects (aerodynamics, meteorology, navigation, airspace, etc.) to a level that even the non-technical person can easily understand. Simply stated, Rod Machado makes learning about flying a fun and enjoyable experience..... P/N 13-24374



ROD MACHADO'S PLANE TALK

A collection of Rod Machado's most popular aviation articles and stories from the last 15 years. Rod Machado's Plane Talk contains nearly 100 articles covering flights of fun and knowledge that will stimulate your aviation brain and tickle your funny bone. In addition to the educational topics listed below, this 456 page book contains articles on topics such as higher aviation learning, the value of aviation history, aviation literature, aviation art and how an artists perspective can help you better understand weather. 456 page book.

P/N 13-03155



INSTRUMENT RATING CHECKRIDE REVIEWER

The combination of a book that has enough "tech" but is still usable was the motivation behind this manual. It's a book that not only gives you a detailed step-by-step plan for your instrument checkride, but also provides the tips and tricks of the IFR system that will keep you safe. P/N 13-12019

AVIATION WEATHER



Without a doubt, the best and clearest book on weather as it pertains to pilots that I have seen. Aviation Weather is designed to help the student of aviation understand their atmosphere in which he or she operates. It also serves as a valuable reference source for pilots at all levels. Whether your connection to flying is as a new student, a certified pilot, controller, dispatcher, scientist, engineer, or an interested passenger, Aviation weather will help you understand the strong interdependence of aviation and meteorology through over 300 full color illustrations, a minimum of mathematics, and a maximum of practical information.

P/N 13-19385

CESSNA AIRCRAFT MANUALS

The handbook is designed: To help you operate your plane with safety and confidence. To more fully acquaint you with the basic performance and handling characteristics of the airplane. To more fully explain your plane's operation than is permissible to set forth in the airplane flight manual.

VISIT OUR WEBSITE AT
WWW.AIRCRAFTSPRUC.COM TO SEE THE
MANUAL FOR YOUR CESSNA AIRCRAFT

PIPER AIRCRAFT MANUALS

The handbook is designed: To help you operate your plane with safety and confidence. To more fully acquaint you with the basic performance and handling characteristics of the airplane. To more fully explain your plane's operation than is permissible to set forth in the airplane flight manual.

VISIT OUR WEBSITE AT
WWW.AIRCRAFTSPRUC.COM TO SEE THE
MANUAL FOR YOUR PIPER AIRCRAFT

MOONEY, GRUMMAN, DIAMOND STAR AIRCRAFT MANUALS
ALSO AVAILABLE. SEE WWW.AIRCRAFTSPRUC.COM

A & P TEST/STUDY GUIDE BUNDLE



Within this kit, you'll have all the test preparation essentials needed to ace your exams. Kit items are also sold individually.

Kit includes:

- A & P Airframe Test Guide with Oral & Practical Study Guide.
- A & P General Test Guide with Oral & Practical Study Guide.
- A & P Power Plant Test Guide with Oral & Practical Study Guide

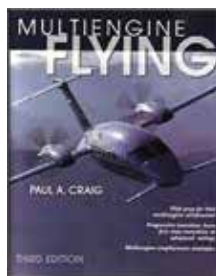
A&P Test/Study Guide Bundle
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Additional Items

Jepp A&P Tech General Study Guide P/N 13-01188

Jepp A&P Tech Airframe Study Guide P/N 13-03741

Jepp A&P Tech PowerPlant Study Guide ... P/N 13-01195



MULTI-ENGINE FLYING

Multi-Engine Flying, by Paul Craig is a thorough and complete training manual on multi-engine flight covering multi-engine aerodynamics, normal and emergency procedures, multi-engine performance, and both simple and advanced aircraft systems. Advanced systems, including turboprop and operations common to high performance commercial aircraft are then discussed including high altitude operations, and modern glass cockpit systems. Book P/N 13-07604

BV

FLIGHT TRAINING



PROFLIGHT PRE SOLO WRITTEN EXAM

This exam contains a total of 50 questions: 20 general questions, 10 regarding your training aircraft, and 20 regarding your local flight environment. Use of reference materials during this exam such as your training aircraft's Operator's Manual and local aeronautical charts is permitted.

P/N 13-10441



BIENNIAL FLIGHT REVIEW

Complete BFR in one small package! This is by far the most concise and well organized flight review book on the market. It is full of checklists and handy procedures as well. Targeted for the aviator who wants to brush up on the rules and regs and get up in the air and have some fun!

P/N 13-05739



INSTRUMENT FLIGHT REVIEW

A shortcut to IFR Review! You can't beat this. This is the most incredible organization of IFR rules, regulations, tips and information available. Includes fully illustrated flight maneuvers and procedures, clearances, approaches, flight planning and more!

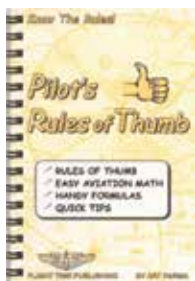
P/N 13-05740



PILOT'S POCKET HANDBOOK

The next best thing to having that brain chip implant! An extremely useful collection of everyday aviation facts, figures and neat stuff! Includes a world time chart, aircraft country codes, math and conversions, standard and emergency checklist, abbreviations, get the idea?

P/N 13-05741



PILOT'S RULES OF THUMB

Don't fly by the seat of your pants, use your Thumbs! Here is the only book of it's kind. This collection of helpful rules and tips is useful to barnstormer and jet fighter pilot alike.

P/N 13-05742



GUARANTEED PASS - HELICOPTER FLASH CARDS

This package includes 240 easy to read, soft yellow cards -- not flimsy paper -- which will help you pass your FAA written and oral (checkride) helicopter exams. Card size approximately: 4.25" x 2.75" - a stack of cards approximately 2in high.

P/N 13-12029



PILOT'S RADIO COMMUNICATION GUIDE

This 70-page review guide is designed as a quick reference guide or radio communications training self study guide. This covers VFR & IFR radio communications. Build your confidence by knowing what to say and when. Designed to fit in your flight bag, size: 6in x 9in

P/N 13-12022



AVIATION ACRONYMS, CONTRACTIONS, AND MNEMONICS

A complete pilot resource for aviation acronyms and contractions for every sector of aviation. Written by a pilot for pilots, this book provides instant answers to weather reports with confusing codes and aviation material with undefined acronyms. This book has been in constant publication since 2004 and is frequently updated. For free lifetime updates, register your book (instructions included). 90 pages. Size 5" x 8".

P/N 13-12024

LYCOMING GASKET POSTER



Sized at 26" x 39". True-to-size poster of the Lycoming Engine gasket selectionP/N 07-26827

LYCOMING EXPANDED ENGINE POSTER



Sized at 26" x 39" with a depiction of a standard disassembled 6 cylinder angle head Lycoming Engine with the orientation and location of parts.

P/N 07-26826

T-REF FLIGHT TRAINING REFERENCES



This is a hardcopy product, measuring 8.5" x 11" when closed and 23.375" x 11" when fully opened! The first of two T-Refs dedicated to private pilot training. This first T-Ref provides many important acronyms that a student pilot must know, as well as important information about the airport environment, hypoxia, landing tips, and many other important elements of flying!

Private Pilot T-Ref 1P/N 13-12742
Private Pilot T-Ref 2P/N 13-12743
Instrument Pilot T-Ref 1.....P/N 13-12740
Instrument Pilot T-Ref 2.....P/N 13-12741
Weather T-Ref.....P/N 13-12744
T-Ref Complete PackageP/N 13-12745

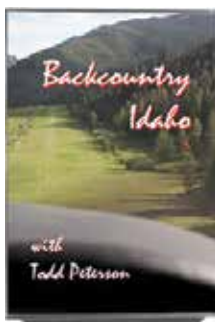
BOOKS – AVIATION DVDS

ALASKANS FLY ALASKA



Join the fun as Alaska pilots sharpen their skills in vast and varied Southwest Alaska, an uninhabited, untamed, and undeveloped wilderness. Experience the excitement of the possibilities open to the small plane pilot, flying low and slow through western Canada and Alaska. Come along as they fly through Canada, following the popular routes preferred by experienced small plane pilots. Explore Alaska's back country, where there are no roads and no people for hundreds of miles. Touch down on remote beaches, sandbars, and fields, in places only the bush pilot can go. Marvel at the breathtaking views of spectacular glaciers, ancient canyons, sun-bathed seascapes, and unsurpassed mountain ranges. Enjoy an enthusiastic look at possibilities open to the small plane pilot flying in Canada and Alaska.

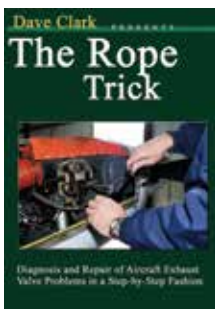
P/N 13-07374



BACKCOUNTRY IDAHO

Pilots of all skill levels will truly enjoy the exhilaration and adventure of Idaho backcountry flying at its best with ... Backcountry Idaho. Visit some of the best backcountry airstrips in the Rocky Mountains. Explore scenic wilderness, vast pine forests, and steep canyons in search of pristine beauty and the next runway challenge. Fly right seat on the actual approaches and departures of these spectacular backcountry airstrips with Todd at the controls of his high-performance, custom designed, King Katmai.

P/N 13-06298

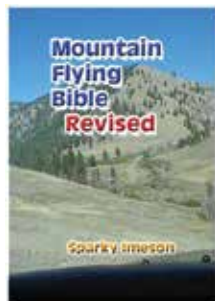


THE ROPE TRICK

The diagnosis and repair of aircraft exhaust valve problems in a step-by-step fashion. Watch as Dave Clark walks you through the steps for inspecting valve clearances, reaming valve guides, and freeing stuck valves. This video can save you a lot of time and money.

Topics Included: • How to perform Lycoming SB 388C • How to check for valve wobble and tightness • How to identify problems on valve stems, guides, and seats • How to ream a sticky valve guide • How to free up a stuck valve without pulling a cylinder • How to choose the necessary tools and more!

P/N 13-10141



MOUNTAIN FLYING BIBLE REVISED

Learn the basic, intermediate and advanced techniques of mountain flying. Learn to anticipate how your airplane will perform in the mountains. Discover simple rules-of-thumb to enhance safety and simplify operations. Learn the weather information required for peace of mind and increased pleasure. 16 pages of color photos of backcountry strips covering the approach, landing and takeoff procedures.

P/N 13-04035

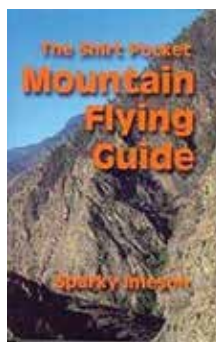


DEEP INSIDE YOUR ROTAX

You can now see and understand what procedures are involved with the 150 and 300 hour inspection/rebuild services. Alan points out the places carbon accumulates, where the common areas of wear occur, and other signs indicating the possibility of potential failures.

The specialized Rotax engine tools are demonstrated as to their function in removing various internal components. Installation and maintenance tricks are also demonstrated and explained for the purpose of heading off future engine failures that can lead to disaster. And More.

P/N 13-03370



THE SHIRT POCKET MOUNTAIN FLYING GUIDE

This is not a rehash of the Mountain Flying Bible. It includes new material and color photos throughout. There are 129-color pages of the 208 pages. What is Covered: Section 1 - Do's and Don'ts

• Section 2 - Basic Premises • Section 3 - Flying Canyons • Section 4 - Crossing Ridges • Section 5 - Turbulence & Va • Section 6 - Maximum Lift Flap Setting • Section 7 - How to Land an Airplane • Section 8 - Visual Illusions • Section 9 - Spot Method for Landing • Section 10 - Mountain Airstrip Operations • Section 11 - Mountain Weather.

BookP/N 13-04051



LIVING IN THE AGE OF AIRPLANES BLU-RAY

Living in the Age of Airplanes offers a fresh perspective on a modern-day miracle that many of us take for granted: flying. Produced and directed by Brian J. Terwilliger (One Six Right), narrated by Harrison Ford and featuring an original score from Academy Award® winning composer James Horner (Avatar, Titanic), the film takes viewers to 18 countries across all seven continents to illuminate how airplanes have empowered a century of global connectedness our ancestors could never have imagined.....P/N 13-20150



ROTAX 912 INSTALLATION TIPS & TECHNIQUES

This presentation explains the most important details of preparing and installing the popular Rotax 912 family of four stroke engines in your experimental homebuilt aircraft. This reliable, high performance engine will only perform safely if installed properly as specified by the Rotax installation guide. The important details in this guide are often misunderstood or even ignored completely resulting in catastrophic engine failures and dangerous flying situations. DVD Running time: 1.5 hours

P/N 13-04183

GHOSTS 2026 CALENDARS



13-01318

Renowned aviation photographer Philip Makanna has captured the essence of this era in his GHOSTS of The Great War and A Time Remembered, a large-format calendar that features his stunning, air-to-air, color photographs. In this edition, his images depict the beginnings of military aviation. The calendar continues through to the advanced aircraft that appeared at the war's end. Stunning images and an evocative day-by-day history of the aviation (and related) events of the period combine to describe the beauty, the romance and the tragedy of military aviation's early days.

Ghosts WWII- A time remembered.....P/N 13-01318

Ghosts WWI - The Great WarP/N 13-06012

Ghosts of the Skies BookP/N 13-01319

Ghosts of the Skies II BookP/N 13-01957

AVIATION DVDS



HOW TO LICENSE YOUR HOMEBUILT AIRCRAFT

This DVD will walk you through each step to successfully license your experimental amateur homebuilt aircraft. The actual FAA forms required are displayed on screen, and where to obtain them and how to fill them out.P/N 13-03609



HOMEBUILT HELP ELECTRICAL WIRING TUTORIAL

Explains and demonstrates the common procedures, tools and components required for the basic wiring of a homebuilt aircraft. Demonstrations of crimping, soldering, wire selection and wiring design with simple schematics that are applicable to a homebuilt electrical system. Video length is 1 hour and 20 minutes. P/N 13-03578



METALWORKING 101

Targeted to the beginning student of pop-riveted metal kit plane construction. Ideal for the person who is contemplating the undertaking of a metal kit plane project. Takes you thru the actual construction of a Zenith rudder, from start to finish. While it can be used to supplement the construction guide supplied by the manufacturer with this rudder (a CH701 or CH601), it is actually intended to demonstrate to the beginning builder just what tasks and skills are required. General metal building procedures are explained and demonstrated. P/N 13-03369

WEIGHT & BALANCE 101 FOR HOMEBUILT

HomebuiltHELP
Weight & Balance 101
for Homebuilders



The how-to video for preparing
Weight & Balance documents
for your homebuilt aircraft

Completing a homebuilt requires you to calculate and document the weight & balance figures for your plane and present them to the inspector...and for many homebuilders this task is confusing and complicated -- however, this video makes this task simple and easy to understand. The video makes it easy for you to understand the concepts required to perform your own weight and balance analysis on your aircraft and then document the findings for the inspection process. P/N 13-04184



AIRCRAFT STRUCTURAL TUBING

3 DVD Set Includes: -4130 Chromemoly Airframe Construction (2 DVD set) -Repairing Structural Tubing. The 4130 DVD: Three EAA Technical Counselors (over 60 years' total experience) show you the procedures necessary to construct a complete airframe from plans.....P/N 13-13051



REPAIRING STRUCTURAL TUBING

This class teaches measuring, geometry, straightening, cutting fishmouths, fitting, splicing, and welding to repair some fuselage damage. A fine companion to our full-length 2-DVD series, 4130 Chromemoly Airframe Construction.P/N 13-13044



RV-12 EMPENNAGE TAILCONE

This double disk DVD is the first in a series of videos being developed to cover the entire build process for the Van's RV-12 aircraft kit. It covers the complete empennage/tailcone kit as supplied by Van's Aircraft. It is a great starting place to begin your project -- there are no prerequisite assemblies that need to be completed before starting. All in the exact sequence of building as specified by the construction manual. Approximately 2.5 hours in length and is divided into various video chapters to make navigation and review of desired sections fast and easy. They are completing production on the subsequent volumes of the RV-12 build (that are also sequenced to the sub-kits as provided by Van's Aircraft).P/N 13-09590



SCRATCH BUILDING BASICS FOR METAL AIRCRAFT

An excellent way to determine if building a homebuilt aircraft from scratch is right for you... you will obtain a full understanding of the trials, tribulations, joys and successes that this type of building process entails. You can't watch these guys at work and not learn something that might change the way you think about the process and people that build their own planes from scratch! Approximately 3.5 hours in length and is divided into 10 video chapters to make navigation and review of desired sections fast and easy. The DVD set includes web links to plans for building your own sheet metal brake and other tools used in this video (you can print the plans on your own printer).....P/N 13-04185



RV RUDDER WORKSHOP

This instructional video has 2 major sections: The first section contains an overview and demonstration of the tools and techniques that are required for building an RV aircraft. These specialized building techniques center around riveting with solid rivets - essential for the RV aircraft. Many specialized tools are required for this type of construction and are discussed and demonstrated. Techniques that are shown include: dimpling, countersinking, deburring, drilling, back riveting and pop riveting. A full discussion of the types of rivets that are used along with their important characteristics is included in this first section of the video. The tools for measuring proper rivet setting (rivet gauges) are shown and demonstrated. Some of the tools that are featured include: hand squeezer, pneumatic rivet gun, flush and universal rivet sets, dimple dies, back rivet sets, scotch-brite polishing wheel and deburring tools.....P/N 13-04791



EAA HINTS FOR HOMEBUILDERS - SHEET METAL - VOLUME 2

Since inception in 2008 EAA's instructional how-to video series has been viewed online several million times. Incorporating some of the more popular segments, first time aircraft builders, or multi-project builders will find useful hints, tips, and techniques on this DVD. Approximate Run Time: 93 minutes P/N 13-21975



GAS WELDING - CHROMOLY

EAA -- the authority on home built aircraft -- presents the definitive how-to introduction to gas (oxyacetylene) welding. For the home builder working with chromoly tubing, gas welding provides an effective, reliable, and affordable way to weld. Whether you're a first-time builder or a multi-project veteran, this is the video for you. Earl Luce, an EAA SportAir Workshops gas welding instructor, is an expert on gas welding. He has welded more than 20 fuselages and is the man behind the Wittman Buttercup plans. Earl brings his wealth of experience in building aircraft with gas welding to you in this comprehensive, one-hour video.....P/N 13-21972



SKYWARD TECH AIRCRAFT ENGINE REBUILDING

De-mystify the overhaul procedures on selected Continental & Lycoming engines. Videos begin with a dismantled engine, show the crankshaft being mounted on a stand and then proceed through complete assembly. These videos effectively present the step-by-step procedures of re-assembly.

Description	DVD Part No.	Price
Cont. 0-200 Rebuild	13-03208	.
Lyc. 0-320 Rebuild	13-04465	.
Lyc. 0-360 Rebuild	13-03210	.
Lyc. 10-360 Rebuild	13-03209	.

AVIATION DVDS

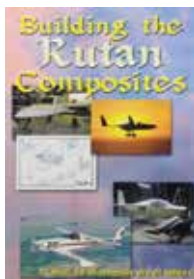
TIMELESS VOICES OF AVIATION



Now you can watch Timeless Voices in your own home. This DVD, a compilation of personal histories featured in the EAA AirVenture Museum, includes 23 fascinating interviews with participants of EAA's oral history project—Timeless Voices of Aviation. The production is the perfect blend of historical footage and timeless interviews highlighting stories of the past 100 years of powered flight. Jump into the cockpit with aviators of all backgrounds as they discuss topics ranging from their experiences in WWII, to aerobatics, to aircraft design, to racing, and more.

P/N 13-21973

BUILDING THE RUTAN COMPOSITES



This step-by-step instructional program features Burt Rutan and Mike Melvill proceeding through the complete foam-epoxy-fiberglass composite construction procedure as used on the VariEze, Long-EZ, Quickie, Q2, Dragonfly, Sea Hawk, Polliwaggen and other composite aircraft. Also included is a formation flight by the Long-EZ, Defiant and VariViggen. A must for all composite aircraft builders. 1hr, 36 mins.

DVD P/N 13-04809

EAA SHEET METAL BASICS DVD



This new instructional video will provide you the basics of sheet metal application needed to build any metal kit aircraft. EAA SportAir Workshops instructor Mark Forss will walk you through the terminology, tools, and techniques required to build the aircraft of your dreams. Mark has taught hundreds of EAA members how to successfully build with sheet metal, and now you can learn those same skills at your own pace and in the comfort of your own home.

P/N 13-18211

EAA TIG WELDING CHROMOLY DVD



"Mr. TIG™", Wyatt Swaim, is known throughout the world as a leading expert on TIG welding. The author of numerous articles on high technology welding, Wyatt is dedicated to training others to the level of Aerospace TIG Welding. Wyatt conducts advanced training seminars for EAA SportAir Workshops, motorsports teams, and is part of the trackside welding team at the Indianapolis 500. He is a regular TIG Welding instructor at EAA AirVenture Oshkosh. Now Wyatt brings his more than 30 years experience directly to you in this comprehensive approx.

P/N 13-18210

FROM THE GROUND UP VOL 1-13



EAA, in conjunction with Discovery Channel International, presents all 13 episodes of the television series From the Ground Up on 3 DVDs. TV's first how - to aviation program. Enter the exciting world of airplane homebuilding and restoration.....

P/N 13-07442



FLYING SINGLE PILOT IFR

If you fly single pilot IFR, this video is for you. Explains risks involved and how to minimize them. Explores equipment requirement, organization, getting real time weather, staying ahead of the airplane, copilot selection and situational awareness.

(60 min) P/N 13-23850



HOW TO GET A FLIGHT REVIEW

Recommended for anyone preparing for a flight review. Covers the relevant areas of FAR 61.56, and what you need to know for the flight review. Includes the new airspace & weather reporting changes.

(50 min) P/N 13-23860



ONE SIX RIGHT

Experience an exhilarating documentary film that celebrates the unsung hero of aviation – the local airport – by tracing the life, history, and struggles of an airport icon: Southern California's Van Nuys Airport. Featuring thrilling aerial photography and a sweeping original score, the film dispels common misconceptions and opposes criticism of General Aviation airports. Through the love story of one airport, past to present, the film shares the timeless romance of flying with all ages. 73 minutes. Plays world wide on any NTSC DVD player.

DVD P/N 13-04571

Blu-Ray P/N 13-19618



4130 CHROMOLY AIRFRAME CONSTRUCTION

This video is highly recommended for anyone considering a steel tube fuselage aircraft. It covers the whole process: Workflow, welding rod selection, jigging, fitting, and welding. (Note: The discussions and advice are almost exclusively about oxyacetylene welding. TIG, GTAW, is mentioned only in passing.)

DVD P/N 13-04375



THE COMPLETE AIRLINE PILOT INTERVIEW COURSE

This DVD from Flightdeck Consulting has been produced and developed by airline pilots for airline pilots. This DVD includes: Eight Virtual Interviews to help you perfect your interview technique. Access to the "Airline Pilot Interview Work Booklet", an essential tool covering all aspects of your interview including psychometric testing, simulator check ride and panel interview. Simulator Assessment Guide. Psychometric Testing Information. Complimentary Email Support from professional airline interview consultants. Make an investment in your future and be "The Standout Candidate" at your interview.....

P/N 13-08754



GETTING STARTED IN AEROBATICS

Produced in co - operation with the International Aerobatic Club, Getting Started in Aerobatics is a valuable introduction to the dynamic world of aerobatics. During the course of this program, you'll hear six legendary aerobatics pilots relate their years of experience and address topics that include the benefits of aerobatics, its history and background, training options, selecting the right instructor and equipment, and more. You'll also experience the thrill of an aerobatics flight lesson at the renowned Pompano Air Center.

(55 minutes) P/N 13-40505

OWNERS MANUALS – PIM

Part No.	Description	Price	Part No.	Description	Price	Part No.	Description	Price
14-03117	C172K Air Force T-41a Flight Handbook	.	14-00765	Cessna 172G & Sky-hawk 1966	.	14-00453	Cessna 310G 1962	.
14-03089	C180 1953	.	14-00766	Cessna 172H & Sky-hawk 1967	.	14-01372	Cessna 310H 1963	.
14-03093	C180 1957	.	14-00767	Cessna 172I & Sky-hawk 1968	.	14-01373	Cessna 310J 1964	.
14-03095	C180 1959	.	14-00768	Cessna 172K & Sky-hawk 1969	.	14-01374	Cessna 310J 1965	.
14-03096	C180 1960	.	14-00769	Cessna 172K & Sky-hawk 1970	.	14-01375	Cessna 310K 1966	.
14-03097	C180 1963	.	14-00770	Cessna 172L & Sky-hawk 1971	.	14-01376	Cessna 310L 1967	.
14-03113	C180 1963-68 Floatplane Supplement	.	14-00771	Cessna 172L & Sky-hawk 1972	.	14-01377	Cessna 310N 1968	.
14-03098	C180 1964	.	14-00772	Cessna 172M & Sky-hawk 1973	.	14-01378	Cessna 310P 1969	.
14-03099	C180 1965	.	14-00773	Cessna 172M & Sky-hawk 1974	.	14-01379	Cessna 310Q 1970-72	.
14-03101	C180 1967	.	14-00774	Cessna 172M & Sky-hawk 1975	.	14-01380	Cessna 310Q 1973	.
14-03102	C180 1968	.	17-00124	Cessna 172R 180 Hp Pro Pilot Checklist	.	14-01381	Cessna 310Q 1974	.
14-03103	C180 1969	.	17-00126	Cessna 172R-im Aus with Nav III Glass Panel (Green Star)	.	14-01382	Cessna 310R 1975	.
14-03112	C180 1969-72 Floatplane Supplement	.	14-00800	Cessna 175 & Skylark 1959	.	14-01400	Cessna 320 1962	.
14-03104	C180 1970	.	14-00684	Cessna 175 1958	.	14-01401	Cessna 320A 1963	.
14-03105	C180 1971-72	.	14-00801	Cessna 175A 1960	.	14-01402	Cessna 320B 1964	.
14-03106	C180 1973	.	14-00802	Cessna 175B 1961	.	14-01403	Cessna 320C 1965	.
14-03107	C180 1974	.	14-00803	Cessna 175C 1962	.	14-01404	Cessna 320D 1966	.
14-03108	C180 1975	.	14-00804	Cessna 177 & Cardinal 1968	.	14-01405	Cessna 320E Skynight 1967	.
14-03110	C180D 1961	.	14-00805	Cessna 177A & Cardinal 1969	.	14-01406	Cessna 320F Skynight 1968	.
14-03109	C180E 1962	.	14-00811	Cessna 177B & Cardinal 1975	.	14-01422	Cessna 337 1965	.
14-03111	C180J 1975 Floatplane Supplement	.	14-00806	Cessna 177B 1970	.	14-01421	Cessna 337A 1966	.
14-03076	C185 Skywagon 1961	.	14-00807	Cessna 177B 1971	.	14-01407	Cessna 337B 1967	.
14-03072	C185 Skywagon 1961-65 Float Supplement	.	14-00808	Cessna 177B 1972	.	14-01408	Cessna 337C 1968	.
14-03077	C185 Skywagon 1964	.	14-00809	Cessna 177B 1973	.	14-01409	Cessna 337D Super Skymaster 1969	.
14-03078	C185 Skywagon 1965	.	14-00810	Cessna 177B 1974	.	14-01410	Cessna 337E 1970	.
14-03073	C185 Skywagon 1966 Float Supplement	.	14-00776	Cessna 182 & Skylane 1957-58	.	14-01411	Cessna 337F 1971	.
14-03080	C185 Skywagon 1967	.	14-00775	Cessna 182 1956	.	14-01412	Cessna 337F 1972	.
14-03074	C185 Skywagon 1967-68 Float Supplement	.	17-00133	Cessna 182 Tim-bus w/integrated Autopilot	.	14-01413	Cessna 337G 1974	.
14-03081	C185 Skywagon 1968	.	14-00777	Cessna 182B Skylane 1959	.	14-01414	Cessna 337G Skymaster 1973	.
14-03082	C185 Skywagon 1969	.	14-00778	Cessna 182C Skylane 1960	.	14-01415	Cessna 337G Skymaster 1975	.
14-03075	C185 Skywagon 1969-72 Float Supplement	.	14-00779	Cessna 182D Skylane 1961	.	14-01442	Cessna 340 1972	.
14-03083	C185 Skywagon 1970	.	14-00780	Cessna 182E Skylane 1962	.	14-01443	Cessna 340 1973	.
14-03071	C185 Skywagon Float Supplement	.	14-00781	Cessna 182F & Skylane 1963	.	14-01444	Cessna 340 1974	.
14-03114	C185A 1962	.	14-00782	Cessna 182G & Skylane 1964	.	14-01445	Cessna 340 1975	.
14-03115	C185B 1963	.	14-00783	Cessna 182H & Skylane 1965	.	14-01454	Cessna 401 1967-1968	.
14-00662	Cessna 120 & 140 1946-1948	.	14-00784	Cessna 182J & Skylane 1966	.	14-01455	Cessna 401A 1969	.
14-00661	Cessna 140A 1949-51	.	14-00785	Cessna 182K & Skylane 1967	.	14-01456	Cessna 401B 1970-1972	.
14-00263	Cessna 150 1959-60	.	14-00786	Cessna 182L & Skylane 1968	.	14-01461	Cessna 402 1967-1968	.
14-00552	Cessna 150A 1961	.	14-00787	Cessna 182M & Skylane 1969	.	14-01462	Cessna 402A 1969	.
14-00264	Cessna 150B 1962	.	14-00788	Cessna 182N & Skylane 1970	.	14-01463	Cessna 402B 1970-1972	.
14-00265	Cessna 150C 1963	.	14-00789	Cessna 182N & Skylane 1971	.	14-01464	Cessna 402B 1973	.
14-00266	Cessna 150D 1964	.	14-00790	Cessna 182P & Skylane 1972	.	14-01465	Cessna 402B 1974	.
14-00267	Cessna 150E 1965	.	14-00791	Cessna 182P & Skylane 1973	.	14-01468	Cessna 402B Businessliner 1975	.
14-00540	Cessna 150F 1966	.	14-00792	Cessna 182P & Skylane 1974	.	14-01481	Cessna 414 1970-72	.
14-00541	Cessna 150G 1967	.	14-00793	Cessna 182P & Skylane 1975	.	14-01482	Cessna 414 1973	.
14-00542	Cessna 150H 1968	.	17-00130	Cessna 182S 1997 - 2000 (Purple Star)	.	14-01483	Cessna 414 1974	.
14-00543	Cessna 150J 1969	.	17-00131	Cessna 182T 2001 & Up (Yellow Dot)	.	14-01484	Cessna 414 1975	.
14-00544	Cessna 150K 1970	.	14-01304	Cessna 188, 188a 1966-67	.	14-01494	Cessna 421 Golden Eagle, Exec Comm 1968	.
14-00545	Cessna 150L 1971	.	14-01305	Cessna 188, 188a 1968-69	.	14-01495	Cessna 421A 1969	.
14-00546	Cessna 150L 1972	.	14-01306	Cessna 188A, A188B 1970-71	.	14-01496	Cessna 421B 1970-1971	.
14-00547	Cessna 150L 1973	.	14-01307	Cessna 188B & A188B AG Wagon 1972-73	.	14-01497	Cessna 421B 1974	.
14-00548	Cessna 150L 1974	.	14-01308	Cessna 188B & A188B AG Wagon 1974	.	14-01498	Cessna 421B 1975	.
14-00549	Cessna 150M 1975	.	14-01309	Cessna 188B & A188B AG Wagon 1975	.	14-01499	Cessna 421B Golden Eagle 1972	.
17-00151	Cessna 152 Aerobat 1979	.	14-01323	Cessna 190, 195, 195A, 195B 1946-1953	.	14-01500	Cessna 421B Golden Eagle 1973	.
14-00663	Cessna 170 1948	.	14-01324	Cessna 205 1963	.	14-00004	Cessna A150K Aerobat 1970	.
14-00664	Cessna 170A 1949-51	.	14-01325	Cessna 205A 1964	.	14-00005	Cessna A150L Aerobat 1971	.
14-00665	Cessna 170B 1952-55	.	14-01326	Cessna 207 Skywagon 1969	.	14-00655	Cessna A150L Aerobat 1972	.
14-00666	Cessna 170B 1956	.	14-01327	Cessna 207 Skywagon 1970	.	14-00656	Cessna A150L Aerobat 1973	.
14-00668	Cessna 172 & Sky-hawk 1957-58	.	14-01328	Cessna 207 Skywagon 1971-73	.	14-00657	Cessna A150L Aerobat 1974	.
14-00669	Cessna 172 & Sky-hawk 1959	.	14-01329	Cessna 207 Skywagon 1974	.	14-00658	Cessna A150M Aerobat 1975	.
14-00696	Cessna 172 & Sky-hawk 1963	.	14-01330	Cessna 207 Skywagon 1975	.	14-03086	Cessna A185F 1973 Skywagon	.
14-00667	Cessna 172 1956	.	14-00458	Cessna 310 1955-1956	.	14-03087	Cessna A185F 1974 Skywagon	.
17-00167	Cessna 172 RG 1985	.	14-03358	Cessna T210N 1979	.	14-03088	Cessna A185F 1975 Skywagon	.
17-00129	Cessna 172 Sim-bus W/integrated Autopilot	.	14-00457	Cessna 310B 1957-58	.	14-03085	Cessna A185F Skywagon	.
14-00694	Cessna 172B & Sky-hawk 1961	.	14-00456	Cessna 310C 1959	.	14-03118	Cessna FR172J Reims Rocket Flight Manual	.
14-00695	Cessna 172C & Sky-hawk 1962	.	14-00455	Cessna 310D 1960	.	14-01423	Cessna P337G 1974	.
14-00763	Cessna 172E & Sky-hawk 1964	.	14-00454	Cessna 310F 1961	.	14-01424	Cessna P337G 1975	.
14-00764	Cessna 172F & Sky-hawk 1965	.				14-01425	Cessna P337G Skymaster 1973	.

OWNERS MANUALS – PIM

Part No.	Description	Price	Part No.	Description	Price	Part No.	Description	Price
14-03116	Cessna R172E Army T-41b Flight Handbook	.	14-01192	Piper PA28-140d Cherokee 1971	.	14-01247	Piper PA32-300C Cherokee Six 1970	.
17-00155	Cessna T210N 1979 Pim	.	14-01193	Piper PA28-140e Cherokee 1972	.	14-01248	Piper PA32-300D Cherokee Six 1971	.
14-01435	Cessna T337B Turbo Super Skymaster 1967	.	14-01205	Piper PA28-150, 160, 180b Thru 1964	.	14-01249	Piper PA32-300E Cherokee Six 1972	.
14-01436	Cessna T337C Turbo Super Skymaster 1968	.	14-01204	Piper PA28-150, 160, 180c 1965-67	.	14-01250	Piper PA32-301 Saratoga 1980 & Up Pilot's	.
14-01434	Cessna T337D Turbo Super Skymaster 1969	.	14-00901	Piper PA28-151 Cherokee Warrior 1974-76 Pilot's Manual	.	14-01252	Piper PA32-301 Saratoga, Turbo 1980 & up Pilot's Information Manual	.
14-01437	Cessna T337E Turbo Super Skymaster 1970	.	14-01163	Piper PA28-151 Cherokee Warrior 1977 Pilot's	.	14-01264	Piper PA32-301ft Piper 6x Pilot's	.
14-01438	Cessna T337F 1971	.	14-01168	Piper PA28-161 Cadet Pilot's	.	14-01253	Piper PA32R-300 Cherokee Lance 1976 Pilot's	.
14-01431	Cessna T337G Pressurized Skymaster 1974	.	14-01169	Piper PA28-161 Cadet Pilot's	.	14-01254	Piper PA32R-300 Cherokee Lance 1977-78 Pilot's Manual	.
17-00178	Cessna Turbo 182T Im Bus w/integrated Autopilot	.	14-01167	Piper PA28-161 Warrior II 1977-82 Pilot's	.	14-01258	Piper PA32R-301 Saratoga II 1995 & Up Pilot's	.
14-01340	Cessna Turbo 207 Skywagon 1969	.	14-01164	Piper PA28-161 Warrior II 1983-94 Pilot's	.	14-01255	Piper PA32R-301 Saratoga II HP Pilot's	.
14-01341	Cessna Turbo 207 Skywagon 1970	.	14-01211	Piper PA28-180 Archer 1974-75 Pilot's	.	14-01256	Piper PA32R-301 Saratoga SP 1980-93 Pilot's	.
14-01342	Cessna Turbo 207 Skywagon 1971-73	.	14-01206	Piper PA28-180 Cherokee 1973	.	14-01260	Piper PA32R-301 Saratoga II HP1993-95 Pilot's	.
14-01343	Cessna Turbo 207 Skywagon 1974	.	14-01207	Piper PA28-180D 1967-69	.	14-01261	Piper PA32RT-300 Lance II 1978-79 Pilot's	.
14-01344	Cessna Turbo 207 Skywagon 1975	.	14-01208	Piper PA28-180E Cherokee 1970	.	14-01262	Piper PA32RT-300T Lance II 1978-79 Pilot's	.
14-01389	Cessna Turbo 310P 1969	.	14-01209	Piper PA28-180F 1971	.	14-02207	Piper PA34-200 Seneca 1974 Pilot's	.
14-01390	Cessna Turbo 310Q 1970-72	.	14-01210	Piper PA28-180G 1972	.	14-02208	Piper PA34-200 Seneca Pilot's	.
14-01391	Cessna Turbo 310Q 1973	.	14-01175	Piper PA28-181 Archer II 1976 Pilot's	.	14-02209	Piper PA34-200 Seneca Pilot's	.
14-01392	Cessna Turbo 310Q 1974	.	14-01176	Piper PA28-181 Archer II 1977-79 Pilot's	.	14-02210	Piper PA34-200T Seneca II 1975-76 Pilot's	.
14-01393	Cessna Turbo 310R 1975	.	14-01177	Piper PA28-181 Archer II 1980-94 Pilot's	.	14-02211	Piper PA34-200T Seneca II 1977-81 Pilot's	.
17-00169	Diamond Star DA20-C1	.	14-01178	Piper PA28-181 Archer III 1994-95 Pilot's	.	14-02214	Piper PA34-220T Seneca III 1981 & Up Pilot's	.
14-02918	Grumman Amer AA-5/Traveler Owner Manual	.	14-01180	Piper PA28-201T Turbo Dakota 1979-80 Pilot's	.	14-02215	Piper PA34-220T Seneca III 1989-94 Pilot's	.
14-02919	Mooney M20r Pilot Operating Handbook	.	14-01195	Piper PA28-235 Cherokee 1963-65	.	14-02216	Piper PA34-220T Seneca IV 1994-95 Pilot's	.
14-01301	Piper J3C-65 Cub 1946	.	14-01196	Piper PA28-235 Cherokee 1973	.	14-02212	Piper PA34-220T Seneca IV 1995 & Up Pilot's	.
14-01220	Piper PA-14 Piper Family Cruiser	.	14-01198	Piper PA28-235 Pathfinder 1974-76 Pilot's	.	14-01230	Piper PA-36-285 Pawnee Brave Pilot's	.
14-01282	Piper PA18 Supercub #7409140 & Up 1975	.	14-01197	Piper PA28-235 Pathfinder 1977 Pilot's Operating Handbook	.	14-01231	Piper PA-36-300 Pawnee Brave 300 Pilot's	.
14-01283	Piper PA18-105 Series Owner's Handbook	.	14-01199	Piper PA28-235B Cherokee 1966-67	.	14-01232	Piper PA-36-375 Brave 375 1979 & Up Pilot's	.
14-01284	Piper PA18-125, PA18A-125	.	14-01200	Piper PA28-235C 1968-69	.	14-01219	Piper PA38-112 Tomahawk 1978 & Up Pilot's	.
14-01281	Piper PA18-150 (S/n's 1809001 and Up)	.	14-01201	Piper PA28-235D 1970	.	17-00137	Piper PA-44-180 Piper Seminole (1979-1982)	.
14-01280	Piper PA18-150 (S/n's 7409140 Thru 8309025)	.	14-01202	Piper PA28-235E 1971	.	17-00138	Piper PA-44T-180 Turbo Seminole (1980-up)	.
14-01285	Piper PA18-150 Super Cub	.	14-01203	Piper PA28-235F 1972	.	14-01265	Piper PA46-310P 1984-1986 Malibu Pilot's	.
14-01286	Piper PA18-95, 135, PA18A-135 Supercub	.	14-01185	Piper PA28-236 Dakota 1979-95 Pilot's	.	14-01266	Piper PA46-310P Malibu 1986-1988 Pilot's	.
14-01276	Piper PA18-95, PA18-135, PA18A-135	.	14-01213	Piper PA28R-180 1967-69	.	14-01269	Piper PA46-350P 1995 Malibu Mirage Pilot's	.
14-01279	Piper PA18-95, PA18-150 (1961-1974)	.	14-01212	Piper PA28R-180 1970	.	14-01267	Piper PA46-350P 1998-1999 Malibu Mirage Pilot's Info Manual	.
14-01277	Piper PA18-95, PA18-150, PA18A-150 (1955-1958)	.	14-01214	Piper PA28R-180b Cherokee Arrow 1971	.	14-01271	Piper PA46-350P Malibu Mirage 1989-95 Pilot's	.
14-01278	Piper PA18-95, PA18-150, PA18A-150 (1959)	.	14-01215	Piper PA28R-200 Arrow 1969	.	14-01270	Piper PA46-350P Malibu Mirage 1999-2005 Pilot's Info Manual	.
14-01287	Piper PA18-95, PA18-150, PA18A-150	.	14-01216	Piper PA28R-200 Arrow 1970	.	14-01273	Piper PA46-500TP 2004-2005 Meridian Pilot's	.
14-01288	Piper PA18-95, 150, PA18A-150 Supercub	.	14-01217	Piper PA28R-200 Arrow II 1972-73 Pilot's	.	14-01275	Piper PA46-500TP 2006 & Up Meridian Pilot's	.
14-01292	Piper PA20-115, PA20-125	.	14-01186	Piper PA28R-200 Cherokee Arrow 1974-76 Pilot	.	14-01272	Piper PA46-500TP Meridian 2000-2003 Pilot's	.
14-01296	Piper PA20-135	.	14-01218	Piper PA28R-200b Arrow 1971	.			
14-01291	Piper PA20-135 Pacer PA22-135 Tri-pacer	.	14-01172	Piper PA28R-201 Arrow 1988-1994 Pilot's	.			
14-01293	Piper PA22-108 1961-1964	.	14-01170	Piper PA28R-201 Arrow 1995 & Up Pilot's	.			
14-01294	Piper PA22-108 1962	.	14-01171	Piper PA28R-201 Arrow III 1977-78 Pilot's	.			
14-01295	Piper PA22-125, PA22-135	.	14-01174	Piper PA28R-201T Turbo Arrow III 1977-78 Pilot's Manual	.			
14-01290	Piper PA22-150, PA22-160	.	14-01173	Piper PA28R-201T Turbo Arrow Pilot's	.			
14-01222	Piper PA24-180, 250 Comanche 1958	.	14-01182	Piper PA28RT-201 Arrow IV 1979 Pilot's	.			
14-01224	Piper PA24-180, 250 Comanche 1959-60	.	14-01183	Piper PA28RT-201 Arrow IV 1980 & Up Pilot's	.			
14-01223	Piper PA24-180, 250 Comanche 1961	.	14-01181	Piper PA28RT-201T Turbo Arrow IV 1979 & Up Pilot Manual	.			
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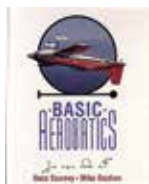
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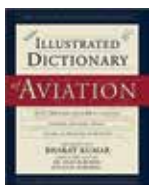
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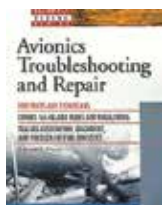
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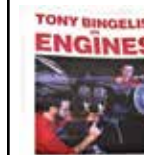
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A treasury of practical engine information for aircraft builders, owners, restorers and mechanics. Things you need to know about engine selection, engine installation, firewall preparation, baffles, cooling, fuel systems, ignition and electrical, exhaust systems, props and spinners all are thoroughly covered. Presented in clear, easy to understand language and illustrated with photos and drawings, this is another of Tony's incomparable collection of articles from EAA's Sport Aviation magazine that addresses powerplant issues facing today's sport plane builder and pilot! All the right answers at your finger tips .

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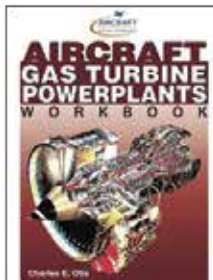


SHOT DOWN

The true story of pilot Howard Snyder and the crew of the B-17 Susan Ruth is about the dramatic experiences of each member of a B-17 crew after their plane was knocked out of the sky by two German Focke-Wulf 190 fighters over the French Belgian border. The print edition of the book has more than 200 time period photographs of the people who were involved and the places where their stories took place.

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BOOKS



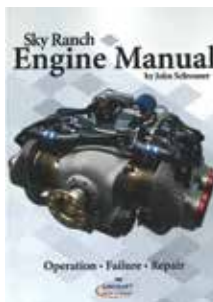
GAS TURBINE POWERPLANTS

Exceeding A&P standards, this textbook is the most up-to-date, in-depth, book available on the design, theory, maintenance, and operation of aircraft turbine engines. Each system is explained showing design, function, operation, inspection, maintenance, and troubleshooting procedures. It's companion workbook, gives questions, answers, and explanations helping you understanding each section of the text.

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SKYRANCH ENGINE MANUAL

Sky Ranch Engine Manual thoroughly covers the operation, inspection, and maintenance of the Lycoming and Continental piston aircraft engine, including a very comprehensive troubleshooting guide. This book goes beyond the basic theory and construction of aircraft reciprocating engines, but instead focuses on the practical aspects for mechanics and operators of why things go bad, how to repair them, and most important; how to keep them from failing in the first place.

bookP/N 13-09912

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THE MAGNETO IGNITION SYSTEM

A treasure trove of information about the Bendix and Slick magnetos used on virtually all piston aircraft engines. This book covers everything you want to know about how your aircraft ignition system works. It is highly illustrated with photographs, drawings, graphs, and tables. You'll want to add this book to your maintenance library.

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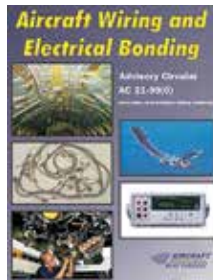
The more detailed your entries, the more they will help you to prove your qualifications when you need to do so. From your first day in school and throughout your career, get in the habit of writing it down. Did you help change a tire on a Cessna 150? Did inspect and replace a blade on a CF-6? Document it. These records will show not just what you are qualified to do, but that you are disciplined enough to keep the record. For EASA students and apprentices, these entries will prove your on-the-job experience and thus eligibility for your final license application. Contains 226 pages and over 2000 entries. Columns on each page include: date, equipment type, registration number description of work performed, and supervisor or instructor's name

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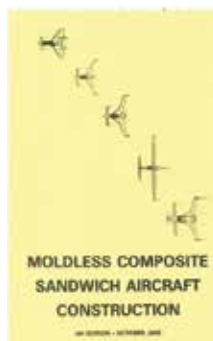
AIRCRAFT WIRING AND ELECTRICAL BONDING

This is a highly detailed manual published by Aircraft Technical Book Company under license by the Australian Civil Aviation Safety Authority (CASA) presenting indepth instructions for aircraft electrical work covering topics from aged wiring inspection to modern fiber optic installation, inspection and repair.

Material selection, circuit design, harness building, connectors, circuit protection, soldering, lacing, sealing, electrical bonding, grounding, repairs, and all other related skills are covered in a practical, no nonsense manner offering complete guidance to the A&P technician working with small and large aircraft electrical systems to commercial and military standards.

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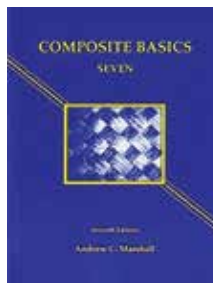
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MOLDLESS COMPOSITE SANDWICH CONSTRUCTION

4th edition by Burt Rutan, This is a step-by-step manual for the beginner working on composite aircraft designs including templates for the practice construction of several parts. If the steps are studied and followed carefully, a first time builder can work confidently with these materials.

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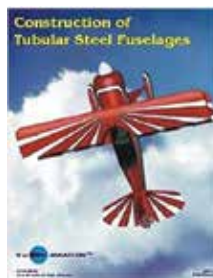


COMPOSITE BASICS

This manual explains the theory, working techniques, and details of various types of glass, carbon and kevlar fibers, resins, adhesives, foams, and honeycombs for light airplane construction and repair. Further sections include the basics of manufacturing and design methods and are extremely relevant for those employed by component manufacturers and those involved in aircraft design projects. Tooling and manufacturing methods, designing, stress, loads and load testing, vacuum bagging, autoclaves, and more are discussed in a technical, yet understandable manner.

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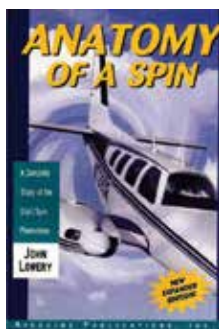


FLIGHT TESTING HOMEBUILT AIRCRAFT

Sooner or later, every homebuilder becomes a test pilot; not just to determine it is safe, but to establish the usable envelope by which you will fly it for the next 20 years. In a step by step methodical manner, this book shows you how to explore your aircraft's performance and identify problems that crop up, even in the most well proven designs.

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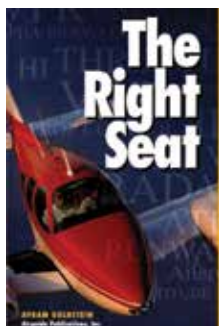
ANATOMY OF A SPIN

A detailed study of stall-spin in light airplanes. Written by John Lowery, highly experienced in both pilot training and aircraft flight testing, this book emphasizes NASA data on stalls and spins in general-aviation aircraft and including interviews with factory test pilots together with data from aircraft manufacturers. Added to these are the author's own extensive experience in both high-performance and general-aviation aircraft. Coverage includes the stall and stall speed, multi engine characteristics, T-tail consideration, the effect of high lift devices, asymmetrical thrust, the effect

of CG, how the stall leads to and affects the spin, inverted and flat spins, stall/spin recovery techniques and much more.

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THE RIGHT SEAT

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FIBERGLASS 101

This video demonstrates in great detail the type of non-structural fiberglass work common on metal airplanes such as the Vans RV series, including the various fillets, fairings, wheel pants, and cowls. This video is not finely produced, but the vast amount of practical information more than makes up for it. 36 years experience in a 2 hour film.

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The booklet includes detailed reference diagrams and even a quiz at the end of the course to test your comprehension.

The course moves from an introduction, to the controls, to straight-and-level flight, through turns, climbs, stalls, takeoffs and landings, approach procedures and emergency procedures.

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First compiled by Baja Bush Pilot founder Arnold Senterfitt, Airports of Mexico is based on hundreds of hours of flying throughout Mexico. Rewritten by Jack McCormick, this new 20th edition includes both Baja and mainland Mexico, features over 1100 airports/ airstrips, all seaports and heliports, border crossing information, all international airports, information on flying in Mexico, discounts on hotels, Mexican insurance, group trips and fees. Over 150 airports are fully diagramed and are listed alphabetically. All in

a convenient light weight, smaller, snap-ring binder designed for easy to use in the cockpit. A must for every pilot flying trips to Mexico.

P/N 13-01028



MOUNTAIN FLYING

Not quite as detailed as Mountain Flying Bible, but for learning the techniques of mountain flying and operating from remote high altitude airstrips, it is in our opinion, the best value for the dollar of all of Sparky's books.

Comprehensive guidance from an expert. Mountain flying has its own rules. This is the book that explains them with clarity and authority. Organized to follow the sequence of a typical flight, the book covers preflight, takeoff, en-route, arrival procedures, and landing. The author discusses fuel management, the

magnetic compass, and the effects of high-altitude flying on weight and balance and the airspeed indicator. There's much more in this unique book, and it's a "must" for every pilot who flies into mountainous terrain.

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BOOKS



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Airline Pilot Interviews, How You Can Succeed In Getting Hired by Irv Jasinski. This completely revised, updated, and greatly expanded edition has over 300 pages, 20 illustrations, sample resumes (military and civilian), and letters (cover, update, and recommendation). With 46 chapters and an extensive index, the reader will receive hundreds of valuable tips and insights into presenting themselves in interviews with major, national, and regional airlines as well as corporations P/N 14-00709



COMPOSITE & FIBERGLASS MOLDING TECHNIQUES

The colorfully illustrated and bound 26-page booklet contains a list of required materials for creating composite tooling and parts as well as a glossary of associated terms used in the composite molding process. The booklet explains the basics of positive plug construction, including materials usage, the determination of mold break lines and the set up of the positive plug for mold casting. Materials usage for positive plug construction, as well as mold (tooling) construction and final part lay-up materials and some basic finishing techniques provides the basics for completing a set of tooling for composite parts.

P/N 13-11800



A COMPREHENSIVE GUIDE TO COMPOSITES

This book provides an insider's viewpoint on the tips and techniques used by the pros to fabricate advanced composite parts. The culmination of more than 30 years of industry experience, it imparts valuable insight on safety, shop and equipment needs, engineering, materials, lay-up, fabrication and quality control. The author captures lessons, games, safety, tests and projects in place, explaining them in the most pertinent context possible. Students and instructors will benefit from his coverage of lean manufacturing, STEM, and advanced composites, all in one book.

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AIRCRAFT WELDING (94 PAGES)

Fundamental welding techniques for the building and repair of aircraft, from the pages of Sport Aviation and other sources. 94 pages filled with aircraft welding tips and information. Written for home workshop beginners, but also contains facts & procedures helpful to factory welding departments. Tells you which type of equipment is best for you. Not like any other weld textbook.

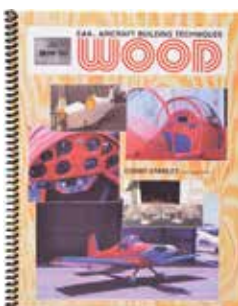
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EAA SHEET METAL BUILDING BASICS

EAA's continuing "how-to" series of educational materials for building your own aircraft now includes, Sheet Metal Building Basics, written by longtime builder and SportAir instructor Jack Dueck. Jack is a sheet metal construction expert and serves on the EAA Homebuilt Council, the EAA Canadian Council, and is an EAA Technical Counselor for his home Chapter 1410 in High River, Alberta, Canada.

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WOOD AIRCRAFT BUILDING TECHNIQUES

Excellent resource book on "How To" build or repair wood aircraft. (120 pages). This book from EAA is a compilation of articles from a variety of people and sources (mostly EAA publications) that covers a wide variety of topics concerning wooden aircraft construction. This is a very good, broad overview of many important topics and techniques and will be an excellent and useful addition to your airplane construction library.

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FIBERGLASS & OTHER COMPOSITE MATERIALS

A revised and updated guide to fiber reinforced plastic materials, including fiberglass, Kevlar, and carbon fiber. It also includes sections on mold making, plugs, materials, structures, gel coats, advanced building techniques, tools, and equipment. Author: Forbes D. Aird Pages: 192

P/N 13-06721



HOW TO PAINT YOUR OWN AIRPLANE

(Ron Alexander) - This book discusses all aspects of spray painting including choosing the right equipment, how to set up a paint booth, preparation of surfaces, painting techniques, safety issues, etc. This is an EAA "How To" book written by Ron Alexander.

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On a cold December morning in 1986, Dick Rutan and co-pilot Jeana Yeager, against all odds, made aviation history when they successfully completed the first ever non-stop and non-refueled flight around the world in a homebuilt airplane! They had traversed 26,358 statute miles, returning with only 18.3 of the 1200 gallons of gas they had taken off with nine days prior. Following their arduous takeoff, Dick's younger brother, Burt, watched the plane of his design disappear over the vast Pacific, believing it improbable he would ever see his brother alive again. Throughout his life, Dick sought adventure and welcomed challenge, frequently finding himself at "danger's door" wondering what THE NEXT FIVE MINUTES of his life would be like. In his words, "It's great to be an American...to live in a free country where, if you can dream it, you can do it. The only way to fail is if you quit.".....P/N 13-22399



PRACTICAL LIGHTPLANE DESIGN AND CONSTRUCTION

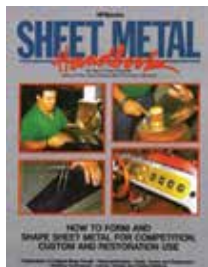
This book provides light plane information for the amateur in a simple and usable form. It should save the amateur builder and designer many hours. Author: W.J. Fike, 60 pages.

P/N 13-21966



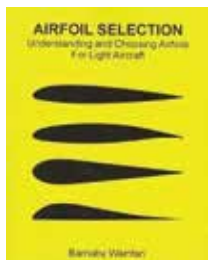
MAINTENANCE HANDBOOK FOR VAN'S RV AIRCRAFT

This book is a culmination of over 45 years of experience working on and maintaining all types of Van's RV aircraft. It should be the ultimate reference guide for you or your mechanic to inspect and maintain the aircraft throughout its life. Using the checklist and accompanying pictures will be almost as good as having the author working over your shoulder. This book contains 151 pages and 443 pictures. It is spiral bound to enhance use in the shop. The purchaser will be able to see the issue and how to repair it. It is essential for Van's RV and Lycoming piston engine owners who do their own maintenance. This Maintenance Handbook is recommended over Vic's Are Your Nuts tight inspection Guide if you plan to maintain your Amateur-Built aircraft.....P/N 13-24461



SHEET METAL HANDBOOK

Detailed information on how to form and shape sheet metal for competition, custom or restoration use. Chapters include hammer forming tools, terms and equipment, riveting techniques, layout, design and pattern-making. A great companion to the Metal Fabricator's Handbook. Author: Ron and Sue Fournier
Pages: 144P/N 13-06720



AIRFOIL SELECTION

The articles are reproduced here as they appeared in the magazine with the exception of minor corrections and reformatting. The purpose of the book is to provide the reader with a basic understanding of airfoil geometry and how that geometry affects the aerodynamics of an airfoil and the characteristics of an airplane using that airfoilP/N 13-18700



GA AIRFOILS

(Harry Riblett) – This book is a critical study of the NACA airfoil design work addressing errors and omissions of the NACA work and correcting NACA airfoils where needed. This is a comprehensive catalog of airfoils designed for general aviation use. Also included are sections on general wing design, including planform, wing tips, root stakes, aircraft performance and stability, and more. 136 pages.
P/N 13-18725



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This booklet was written by Richard Jimenez to educate pilots in knowing the critical speeds of an aircraft that can be used in emergency conditions.

When low on fuel, what speed should you fly the aircraft maximum distance per gallon of fuel? When circling an airport waiting for the ground fog to clear so you can land, what speed should you fly the aircraft for maximum time per gallon of fuel? When taking off, what speed should you fly the aircraft to get the maximum angle of climb

to clear high obstacles? This book gives the answers to those questions. Also other critical speeds are given plus how to fly to use less fuel. Each order includes a placard to use to note your aircraft's critical speeds.
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SKY POLARIS - A RECORD-BREAKING GLOBAL FLIGHT

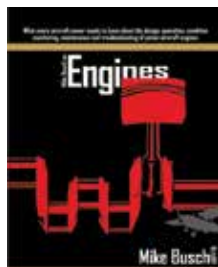
Miguel Angel Gordillo is the first man who circumnavigated the earth over both poles in a homebuilt aircraft under 1750 kg. In 2016 he covered 41,000 nm in two legs in the shape of an eight at extreme flight conditions over desert, jungle, mountains, ocean and ice. This earned him the world record of the Federation Aeronautique Internationale (FAI).

The scientific, aeronautical and personal challenges, experience and encounters on his flight over both poles provided the extraordinary material for this book to document the uniqueness of his world record in words and picturesP/N 13-24482



POWERING YOUR PLANE

"Powering Your Plane" by Dave Prizio is a book that will help readers correctly install a Lycoming-type engine. It covers each step of the engine installation process, including selecting an engine for your project, firewall construction, plumbing, electrical, preparing for your first engine start, and more. By focusing just on Lycoming and similar engines, such as those by Superior and Continental ECI, the author is able to go into great detail about the types of engine installations that most builders use.
P/N 13-20977



MIKE BUSCH ON ENGINES

Mike Busch on Engines: What every aircraft owner needs to know about the design, operation, condition monitoring, maintenance and troubleshooting of piston aircraft engines.

"The risk of engine failure is greatest when your engine is young, NOT when it's old. You should worry more about pediatrics than geriatrics." —Mike Busch A&P/IA

Mike Busch on Engines expands the iconic philosophy of his groundbreaking first book Manifesto to the design, operation, condition monitoring, maintenance and troubleshooting of piston aircraft engines.

If you want your engine to live long and prosper, you need this book.
Specifications: • Paperback: 508 pages • Product Dimensions: 7.5 x 1.2 x 9.2 inchesP/N 13-21514



MIKE BUSCH MANIFESTO FOR GENERAL AVIATION MAINTENANCE

"Manifesto" is the much-anticipated first book from renowned aviation columnist and speaker Mike Busch. Written in typical no-nonsense style, it lays out the basis of Mike's "minimalist" maintenance philosophy for owner-flown general aviation aircraft. An owner who follows the book's guidance can save a small fortune on maintenance costs and end up with a safer, more reliable aircraft.

Owners are advised to perform the absolute least amount of maintenance required to make their aircraft safe, reliable and legal... and nothing more. The book explains in detail why engine and propeller TBOs and most other maintenance intervals should be disregarded.

And "Manifesto" explains exactly how to do it.
P/N 13-21515



MIKE BUSCH AIRPLANE OWNERSHIP - VOLUME 1

Mike Busch on Airplane Ownership is the much-awaited sequel to his previous books Manifesto and Engines. In this two-volume set, Busch distills his wisdom from his more than 50 years as an aircraft owner. He brings his refreshingly commonsense and often outside-the-box approach to every aspect of owning and operating a general aviation aircraft.

Volume 1 covers selecting, purchasing, insuring, and maintaining an aircraft. Busch emphasizes that it is the aircraft owner—not his mechanics—who bears the regulatory responsibility for airworthiness. He discusses how to choose the right mechanic or shop and how to manage the maintenance they perform. Busch dissects the much-dreaded annual inspection, and how owners can keep it from spiraling out of control. He offers guidance about the all-important post-maintenance test flight, and how to deal with an owner's worst nightmare: a mechanical breakdown far from home.

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MIKE BUSCH ON AIRPLANE OWNERSHIP - VOLUME 2

Mike Busch on Airplane Ownership is the much-awaited sequel to his previous books Manifesto and Engines. In this two-volume set, Busch distills his wisdom from his more than 50 years as an aircraft owner. He brings his refreshingly commonsense and often outside-the-box approach to every aspect of owning and operating a general aviation aircraft.

Volume 2 covers the rules and regulations that every aircraft owner needs to know but is often not taught. It discusses owner-performed

maintenance, troubleshooting techniques, aircraft modifications, twins, and resolving owner/mechanic disputes. It takes the reader on a guided tour through the various aircraft systems, discussing the operation, care and feeding of each one. It offers guidance on how to fly safely and efficiently, including leaning techniques, air-speed and altitude selection, and more. The volume concludes with Busch's thoughts about the future of owner-flown general aviation and where we're headed.
P/N 13-23280



ALTERNATIVE ENGINES

This is a compilation of the "Contact" magazine articles written by Mick Myal on conversion of auto engines. Also contains important information and solutions for cooling, ignition redundancy and the selection of components. Well written with many helpful ideas. Filled with specifications, pictures and diagrams. An essential book to anyone converting an auto engineP/N 13-00398



CONVERTING AUTO ENGINES FOR EXPERIMENTAL AIRCRAFT

The single most expensive part on an aircraft is a certified aircraft engine. This book helps eliminate this high cost of building your own aircraft. It's also the most out of date part. FAA and legal restrictions slow development in this field to a snails pace, while automotive technology has raced ahead. Auto engine conversions are becoming more and more popular, and this book explains what it takes to do it yourself. P/N 13-21965



ASA AVIATION INSTRUCTOR'S HANDBOOK

Written by the FAA. Includes principles of teaching and learning, with extensive details on how to pass along aeronautical knowledge and skills. Experienced aviation instructors will also find the information useful for improving their effectiveness in training activities. 152 pages, glossary, index. P/N 13-19380



SHARPEAERO FLIGHT TRAINING BOOK FOR CANADIAN PILOTS

Say hello to Flight Training, the successor of our previously-titled book, Flight Instruction Handbook. This book is now intended for both student pilots to prepare for each flight exercise, and for flight instructors to use as reference materials for their lesson plans. Its significant improvements offer the best flight training content for in-flight preparation that the Canadian market has to offer. P/N 13-24359



SHARPEAERO NIGHT RATING BOOK FOR CANADIAN PILOTS

Say hello to Night Rating, the successor of our previously-titled book, Night Rating Handbook. This book features minor updates from the previous edition, and an updated design. It provides Canadian pilots-in-training and flight instructors with an all-in-one, comprehensive guide that outlines the practical aspects of flying at night in preparation for obtaining a night rating.P/N 13-24360



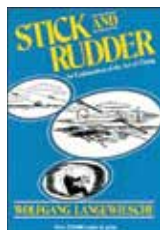
INTRODUCTION TO FLY-BY-WIRE FLIGHT CONTROL SYSTEMS

Introduction to Fly-by-Wire Flight Control Systems: The professional pilot's guide to understanding modern aircraft controls is the #1 guide to understanding the "why and how" of fly-by-wire flight control systems. This book is an approachable and easily understandable must-read for aviation professionals. E-BookP/N 13-24005 PaperbackP/N 13-24006

ASA AN AVIATOR'S FIELD GUIDE TO THE PILOT CAREER PATH



Have you dreamed of flying professionally since you were old enough to spy a jet crossing the sky? The path to a pilot career can be rigorous and expensive, but fortunately, you have a knowledgeable advisor to help you get started and keep you on the right track. Aviation writer, instructor, and FAA Designated Pilot Examiner Jason Blair brings his familiarity with the training environment, his understanding of airline hiring practices, and many specific details of the training process to An Aviator's Field Guide to the Pilot Career Path. SoftcoverP/N 13-26042 eBookP/N 13-26042-EB eBook PDFP/N 13-26042-PD



STICK AND RUDDER

Because the basics are largely unchanging, the book therefore is applicable to large airplanes and small, old airplanes and new, and is of interest not only to the learner but also to the accomplished pilot and to the instructor himself. When Stick and Rudder first came out, some of its contents were considered highly controversial. In recent years its formulations have become widely accepted. Pilots and flight instructors have found that the book works. Today several excellent manuals offer the pilot accurate and valuable technical information. But Stick and Rudder remains the leading think-book on the art of flying. One thorough reading of it is the equivalent of many hours of practice.....P/N 13-26400



FLYING & GLIDER MANUALS

Edited reprints of the original "Building and Flying Manuals" published from 1929 to 1933 by Modern Mechanix and Inventions. 70 pages each.

1929 FLYING & GLIDING MANUAL - Contains information on flight lessons plus building the Heath Super Parasol, Russell-Henderson Light Monoplane and an easy to build glider.P/N 13-40600

1930 FLYING & GLIDING MANUAL - Plans for building a Heath Baby Bullet, set of light plane metal floats, building the Northrop Glider, Lincoln Biplane, Alco Sportplane, plus other tips on building and welding. P/N 13-40605

1931 FLYING & GLIDING MANUAL - Building the "Longster," Georgias Special, a glider and secondary glider, Driggs Dart, the Church Midwing, the Heath Seaplane Parasol and its pontoons, the Northrop Glider and other gliders.P/N 13-40610

1932 FLYING AND GLIDER MANUAL - Building the Pietenpol Aircamper with Ford motor conversion, Powell "P-H" Racer, the Heath Super Soar Glider, Penguin practice plane, Ramsey "flying bathtub" and other kits. Also, build your own hangar.P/N 13-40615

1933 FLYING & GLIDING MANUAL - Building the Gere Sport Biplane, Pietenpol Floats, Pietenpol Sky Scout, and Henderson Longster, Also Long Harlequin motor plans, a hydroglider and information on building propellers.P/N 13-40620



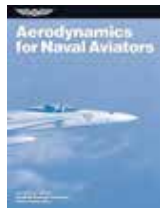
ASA HELICOPTER FLYING HANDBOOK

This is the FAA's primary resource for helicopter operations knowledge; it is essential reading for applicants preparing for knowledge exams with a helicopter class rating. This is the FAA's primary resource for helicopter operations knowledge; it is essential reading for applicants preparing for the exams for private, commercial, or flight instructor pilot certificates with a helicopter class rating. BookP/N 13-00735 E-BookP/N 13-05892



ASA HELICOPTER MANUEVERS MANUAL

This maneuvers manual helps pilots visualize concepts learned in flight training and incorporate the Practical Test Standards into every maneuver. The full-color illustrations and textual explanations work in conjunction with an instructor's lessons, and facilitate effective preflight and postflight briefings. Applicable to all helicopter models, the book also features tips for the popular Robinson R22. This book is an essential tool for any flight bag!P/N 13-18467



AERODYNAMICS FOR NAVAL AVIATORS

This textbook presents the elements of applied aerodynamics and aeronautical engineering which relate directly to flight training and general flight operations. Originally published by the U.S. Navy. 432 pages. P/N 13-01060



ASA THE KILLING ZONE - AIRPLANE ACCIDENTS AND LESSONS FOR SURVIVAL - THIRD EDITION

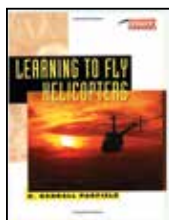
The Killing Zone provides pilots with an invaluable understanding of how and why aviation accidents occur and how to improve their margin of safety while flying. Author Paul Craig leveraged his knowledge as a flight instructor and researcher to analyze National Transportation Safety Board (NTSB) accident reports with the goal of helping prevent accidents that injure or kill pilots and their passengers. His examination of 40 years of accident data found that pilots are at the greatest risk of being involved in an airplane accident when they have between 50 and 350 flight hours—what Craig calls the Killing Zone. SoftcoverP/N 13-26471 eBookP/N 13-26471-EB eBook PDFP/N 13-26471-PD



HELICOPTER DESIGN AND DATA MANUAL E-BOOK

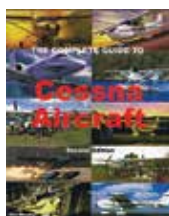
Helicopter Design and Data Manual discusses the basics of helicopter design including aerodynamic theory and fundamentals for rotorcraft, airframe structure, mechanics and design of rotor heads, tail rotors, control linkage, and blade construction, and selection of proper materials.

E-Book P/N 13-09896



LEARNING TO FLY HELICOPTERS (R. RANDALL PADFIELD)

"Written in a conversational style that's both fun and easy to read... Even if you're a confirmed fixed-wing pilot and show no rotor-wing tendencies, you'll enjoy this book and gain an insight into your brother pilots' obsessions." AG-Pilot International. 354 pgs, 100 illust., paperback..... P/N 13-29931



THE COMPLETE GUIDE TO CESSNA AIRCRAFT BY TOM MURPHY

Ready to buy a new or pre-owned Cessna? This updated second edition includes (1) original in-depth info about older Cessna models (2) updated info on Cessnas being offered today and (3) buying advice on AD's, inspection of aircraft and its logbooks and how to choose the right model for your needs.

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THE COMPLETE GUIDE TO PIPER AIRCRAFT

Are you ready to buy a new or pre-owned Piper? This updated second edition includes the original in-depth info about Piper models along with purchasing advice on ADs, inspections, the importance of logbooks, and how to choose the right Piper aircraft for your wants and needs. This informative narrative includes information on models from the Piper Cub, to the various Piper Indians such as the Cherokee, the Cheyenne, the Comanche, and the agricultural Pawnee..... P/N 13-06181



HONEST VISION: THE DONALD DOUGLAS STORY

The Legendary Douglas DC-3 flies on in the hearts of aviators around the globe, but few today know much about the man with the vision that brought her to the skies. From the author of Together We Fly: Voices From The DC-3 comes an exploration into the life of Donald Wills Douglas, founder of the Douglas Aircraft Company, a genius innovator and engineer.

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eBook-PD..... P/N 13-22601

eBook-EB..... P/N 13-22600



ASA ILLUSTRATED GUIDE TO FLYING WORKBOOK

Designed as a companion to An Illustrated Guide to Flying, by Barry Schiff, this Workbook provides review questions for readers to solidify their knowledge of the principles and science detailed in the book. A variety of free-response, multiple choice, and true/false questions cover key topics including basic flight maneuvers, aircraft engines and flight instruments, navigation, weather, types of aircraft, traffic control, flight rules, and more. A convenient answer key is included.

An Illustrated Guide to Flying used in combination with this Workbook provides an exciting introduction to flying for aspiring pilots of all ages.

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FROM TRAVEL AIR TO BARON...HOW BEECH CREATED A CLASSIC!

The complete story of Beech Aircraft's recognition of the need for a true light twin to fill the market gap between the Bonanza and the larger Model 50 Twin Bonanza. This book covers the design concept, marketing strategy, and development of this Beechcraft model line from the first Travel Air in 1958 until the last in 1968. All the Baron models are included, from the Model 55 in 1961 and continuing through the 1994 Model 58 Baron.

P/N 13-04103



ASA AIRCRAFT INSPECTION, REPAIR & ALTERATIONS

The "bible" for AMTs, aircraft owners, and home-builders, this FAA Advisory Circular outlines the standards for acceptable methods, techniques, and practices for the inspection, repair and alteration of non-pressurized areas of civil aircraft with a gross weight of 12,500 lbs or less. Includes both Part 1B and Part 2BQ..... P/N 13-06050



ESSENTIALS OF ADVANCED COMPOSITE FABRICATION & REPAIR

This textbook teaches the concepts and methods in a simple and straightforward manner for a wide array of composites fundamentals. Some of the subjects covered in Essentials of Advanced Composite Fabrication and Repair include: History and development of composite and advanced composite materials. Matrix technology. Fiber reinforcements. Molding methods and practices. Core materials. Tooling, and much more.

Book P/N 13-07295

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INSTRUMENT FLYING HANDBOOK

This primary FAA source handbook for the Knowledge Exams covers the IFR system as well as aerodynamics, flight instrumentation, attitude flying and navigation as they apply to the instrument pilot. The material in this manual applies to both conventional "steam-gauge" analog instrumentation and the "glass cockpit" electronic flight displays found in advanced aircraft.

P/N 13-00986



INSTRUMENT PILOT FAA WRITTEN EXAM (IRVIN N. GLEIM)

The easiest, fastest, and least expensive method to pass the FAA written examination. All 832 FAA questions, answers next to each question, and outlines of what you need to know for each chapter. Only airplane questions are included.

P/N 13-32320



INSTRUMENT PILOT FLIGHT MANEUVERS

Provides a thorough explanation of each maneuver and task called for in the FAA's Instrument Practical Test Standards (PTS). Both the 1998 and oral PTS are included so that the manual reflects the current standards you will encounter during the checkride. With GPS and RNAV navigation much more commonplace, these inclusions have also been made by the FAA. In addition to the technical changes, the publisher has also improved the graphics to better illustrate each maneuver, while retaining those maneuvers that the FAA had deleted from its Instrument

Flying Handbook for greater depth. A cross reference of applicable FAA publications to each maneuver and task helps with further research. The spiral-bound manual is easy to use, clipping onto a standard, approach plate-size kneeboard for flight..... P/N 13-02733



SKYHORSE INSTRUMENT PROCEDURES HANDBOOK

Designed as a technical reference for instrument-rated pilots who want to maximize their skills in an "Instrument Flight Rules" environment, this revised and up-to-date edition of the Federal Aviation Administration's Instrument Procedures Handbook contains the most current information on FAA regulations, the latest changes to procedures, and guidance on how to operate safely within the National Airspace System in all conditions. Featuring an index, an appendix, a glossary, full-color photos, and illustrations, Instrument

Procedures Handbook is the most authoritative book on instrument use anywhere. Revised Edition.....P/N 13-12576



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THE ADVANCED PILOT'S FLIGHT MANUAL 7TH EDITION

Provides information needed by veteran pilots preparing for the commercial written and flight tests. Explains effects of light, drag, thrust, altitude, and temperature on aircraft performance. Includes over 440 tables, charts and illustrations plus a sample commercial written test and answers. 342 pages

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FLIGHT INSTRUCTOR'S MANUAL

The Flight Instructor's Manual is an invaluable reference for flight instructor applicants and serves as an indispensable guide for both new and experienced instructors (CFIs). Organized so each chapter can be used as a stand-alone reference for a particular phase of instruction, allowing it to serve as a "how to teach" guide on topics including: fundamentals of flight instruction (FOI), presolo instruction, first solo to the private certificate, advanced VFR instruction, introduction to aerobatic instruction, and instrument instruction. The book also features a comprehensive spin syllabus, material on multi-engine airplanes, instructing international students, teaching ground school, and setting up tests.

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THE INSTRUMENT FLIGHT MANUAL

The Instrument Flight Manual contains everything students need to know to obtain an FAA instrument rating and serves as a great reference source for the instrument pilot needing a refresher. This presents the basics of instrument flying in a manner easy to grasp in its straightforward and conversational writing style, with illustrations that aid understanding. 296 pages, paperback.

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EAA FLIGHT TEST MANUAL VERSION 2 AND TEST CARDS



The EAA Flight Test Manual (Version 2) offers a comprehensive, step-by-step approach to testing your homebuilt aircraft. This manual is designed to ensure that your aircraft is thoroughly tested and understood by guiding you through each phase of the flight testing process.

What sets this program apart is the use of test cards, which break down each flight into manageable, point-by-point tasks, simplifying data collection and ensuring

thorough coverage. Builders using this manual will gain a complete understanding of their aircraft's performance, handling characteristics, and limitations, as well as the data needed to create a detailed operating handbook. For new or significantly altered designs, the manual will help you create a tailored flight-test plan. We also recommend consulting with an experienced test pilot when needed..P/N 13-25791



MOUNTAIN CANYON AND BACKCOUNTRY FLYING

Recreational pilots to mountain flying instructors will find this book useful, and college and university professors can use the text to supplement their classroom instruction. Fundamental concepts include preparing for and conducting mountain and canyon flights, airport operations, situational awareness, aircraft performance, risk management, and emergency operations. Analysis of accident scenarios, accounts

from the authors' own experiences, and contributions from seasoned backcountry pilots and instructors expand on material detailed in the text. Each chapter includes exercises to help the reader understand and apply the information to their own flying, and beautiful color illustrations will inspire pilots to seek out these awe-inspiring destinations.

BookP/N 13-22062



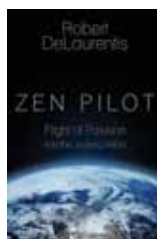
SUNSET TO SUNRISE

Sunset to Sunrise by David Robson Night flight is one of the most pleasant forms of flight. Every city looks good at night. The sparkling lights, stars, moon and reflections combine to produce a spectacle many only dream about. However, night flight requires different technique, perspective, and considerations than day operations. The aircraft must be flown with reference to the flight instruments, and the outside visual references take on new importance while at the same time providing different illusions. Night flight can be a test for even the most experienced pilot.

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ZEN PILOT - FLIGHT OF PASSION AND THE JOURNEY WITHIN

Robert DeLaurentis had an impossibly big dream: to circumnavigate the globe in a single-engine piston plane. Meant to be the ultimate test of his flying skills as a pilot, the journey would take him to the ends of the earth and over some of the most inhospitable terrain on the planet. DeLaurentis shares the insights he gained for overcoming paralyzing fear, defeating obstacles, and confronting any situation with grace and ease.P/N 13-19678



AVIATION MAINTENANCE TECHNICAL WORKBOOK

This Workbook was developed by Tom Wild and Mike Leasure from Purdue University as a further study tool and an A&P instructor's classroom aid for a General curricula, especially when combined with the FAA 8083-30 revision ATB textbook. Each chapter in the workbook matches those in the textbook with each including 3 sections: Chapter Review Questions, Knowledge Application (practical) Questions, Final Chapter Exam

BookP/N 13-09048

E-Book.....P/N 13-09047



ASA AVIATION MECHANIC HANDBOOK

A core reference manual for mechanics, aircraft owners, and pilots, this book compiles specs from stacks of reference books and government publications into a handy, toolbox-size guide. Includes all the information critical to maintaining an aircraft.

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AIRCRAFT OWNERSHIP: UNDERSTANDING OWNER PREVENTIVE MAINTENANCE DVD

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P/N 13-20641



OWNER ASSISTED AIRCRAFT MAINTENANCE

Have you ever wanted to participate in your aircraft's maintenance, but were afraid to try? Are the rising costs of flying keeping you on the ground? This illustrated manual, by Dan MacDonald, is written for the mechanically inclined Part 91 pilot owner/operators that are ready to learn more about their airplanes. It describes common maintenance activities that are approved for pilots to perform by the FAA, along with a number of other projects that you might wish to complete under the supervision of a certified mechanic. The book focuses on common "legacy" single engine aluminum aircraft built from the 1940s through today.

Whether changing your oil, installing new tires, or checking engine compression this 160 pages of text and photos provides procedures and tips gathered over the past 27 years. Soft cover; includes over 200 color photographs.....P/N 13-10244



SAY AGAIN, PLEASE: GUIDE TO RADIO COMMUNICATIONS

Talking on an aviation radio and understanding air traffic control (ATC) instructions can be one of the most intimidating aspects of flight training. In Say Again, Please Bob Gardner explains how the ATC system works and teaches pilots what to say, what to expect to hear, and how to interpret and react to clearances and instructions. His conversational-yet-concise writing style will help increase your comfort level when using an

aircraft radio.

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IFR COMMUNICATIONS KIT

This aviation communication resource is the companion to the VFR Communications Kit. It was designed to help you improve your IFR communications with less stress by making a 'script' for every IFR flight. Script assembly instructions, template descriptions, an ample supply of each of the 32 communication templates. After a few flights you will sound like a seasoned pilot!

P/N 13-06865



FLIGHT INSTRUCTORS SURVIVAL GUIDE

After passing the FAA's Fundamentals of Instructing (FOI) knowledge test required of all instructors, the true challenge begins—applying that knowledge in the real world of teaching flight. Follow along as Arlynn McMahon lifts the FOI principles from the classroom and brings them into the cockpit. Her forty-four stories demonstrate the FOI principles in flight and offer practical strategies for dealing with both common and unexpected situations—all with wisdom, grace, and humor.

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MY SKY - THE FLIGHTS AND TIMES OF BILL COX

Longtime pilot and writer Bill Cox entitled "My Sky: The Flights & Times of Bill Cox." Detail his lifelong travels as a pilot, in the beautifully scripted way in which only Bill can write.

Aviation writer/photographer and pilot Bill Cox has been in love with airplanes since the age of 13, though he refuses to admit how long ago that was. He survived his first airplane ride as a Civil Air Patrol Cadet in a Piper J-3 Cub on skis out of Merrill Field in Anchorage, Alaska, sometime in the middle of the last century. "We did a variety of search-and-rescue missions," Bill commented. "All search and no rescue." Starting in 1977, Bill

began delivering new and used aircraft overseas and has made 220 delivery flights across the world. Notably, and not chronicled in this book, Bill delivered Brad Pitt and Angelina Jolie's former Cessna Grand Caravan from Long Beach, California, to its new owner in Seoul, Korea. In a half-century of flying, he's had 13 engine failures (two at a time, see Chapter 11), but has only lost one airplane, a Piper Lance in the Ogaden Desert of Ethiopia in 1998 (also detailed in Chapter 11). Bill has logged about 15,000 hours in 60 years of flying.....P/N 13-23277



HUMAN FACTORS - ENHANCING PILOT PERFORMANCE

Today's aviation industry enjoys a remarkable safety record, primarily because it has learned from the mistakes of its past. Through the study of aviation accidents, most of the risks of flying have been identified and the threats they pose to safety can be managed. However, aircraft accidents, such as controlled flight into terrain, loss of control, runway excursions and incursions, and midair collisions still occur, and the hazards of flight remain.

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MY LITTLE EAGLE: THEO LEARNS TO FLY CHILDREN'S BOOK



My Little Eagle: Theo Learns to Fly is an amazing aviation-inspired story written by Merici Huggins, a Minnesota based author from the Caribbean island of St. Lucia. The chronicles a little eagle (Theo) who could not fly because his wings were too short. Theo soon realizes there are other ways to fly and make his dream come true. The story is meant to entertain and inspire children of all ages to believe in themselves. It is filled with lessons about self-reliance, facing fears, overcoming challenges and disabilities, and achieving goals. It is also meant to spark an interest in airplanes and aviation in children. Pages: 24 pages, full-color illustrations. P/N 13-25690

ASA AN AVIATOR'S FIELD GUIDE TO THE SEAPLANE RATING



Knowledge and practical skills training to add a seaplane rating to your pilot certificate. In this practical guide for aspiring seaplane pilots, author Bill Young details what students need to know to earn their Airplane Single-Engine Sea (ASES) Rating. It is designed for pilots to use before and during training and provides a curriculum of flight and ground lessons, oral exam preparation questions and answers, and a focus on safety through scenario-based training and the use of checklists. The content is aligned with the Airman Certification Standards (ACS) to ensure all requirements are met, with references to the specific

ACS tasks addressed to guide further study. The author uses an example seaplane to illustrate concepts while providing spaces throughout for students to record details specific to the aircraft they are training in. The thorough study guide covers seaplane basics, reading the water surface, assessing the landing area, preflight procedures, maneuvering on the water, takeoffs and landings, beaching, docking, and important procedures and safety considerations specific to amphibious seaplanes. This guide will provide students with the knowledge and confidence to earn their ASES rating and become safe and competent seaplane pilots.

SoftcoverP/N 13-26012

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DICTIONARY OF AERONAUTICAL TERMS (DALE CRANE)

Dale Crane's ultimate reference book contains more than 11,000 accurate, aviation-specific terms and definitions, updating and gathering all the terms in Title 14 of the Code of Federal Regulations, glossaries from FAA handbooks, advisory circulars and manuals, the Aeronautical Information Manual (AIM) and Pilot/Controller Glossary, as well as definitions not found in government publications. Nearly 500 illustrations further define and aid visual recognition of the terms, and useful tables and lists are included in appendices.

The ASA Dictionary of Aeronautical Terms, now in its Sixth Edition, is a vital reference tool that belongs on every aviation bookshelf.

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EVERYTHING EXPLAINED FOR THE PROFESSIONAL PILOT BOOK

430 pages (8 1/2 x 11) crammed with virtually every scrap of information essential and necessary for every pilot. All that knowledge you wish you could have at your fingertips all the time, and many things you never even thought about. Fun to read and yet excruciatingly detailed. The ultimate reference book that explains all aspects of aviation from props to heavy jets. 14th Edition.

P/N 13-03231



MASTERING THE E-6B FLIGHT COMPUTER

Mastering the E-6B Flight Computer; a new book by Mike Arman, launches with this history of the humble yet elegant flight computer before delving into a thorough tutorial on its use. Although some student pilots actually fear these devices (and more than a few seasoned pilots have forgotten how to use them), the E6B is a no-fail way to make numerous critical calculations both before and during cross-country flights. You can use the book to learn how to figure everything

from time/speed/distance problems to fuel burn, from density altitude calculations to wind triangles and drift. Arman, an advanced ground instructor and pilot, uses many examples in each lesson to illustrate E6B concepts P/N 13-04709



LIVING THE GOODE LIFE AT FULL THROTTLE

"This is an extraordinary story, beginning with a bare-foot colonial childhood, and indeed not speaking English until he was four, yet ending up at Cambridge, ultimately dealing at the highest levels of the Russian aviation industry. Richard Goode's life has been a fascinating series of activities, both social and business, dealing with an incredible range of people from the notorious Ugandan dictator, Idi Amin, to whom he was selling banknotes (legally) to a car dealer who was embroiled in the Brinks-Mat gold robbery (illegally); dealing with Russian spies at the behest of MI5;

international corporate headhunting and aerobatics at the highest levels. And all this with a huge zest for living life to the full.

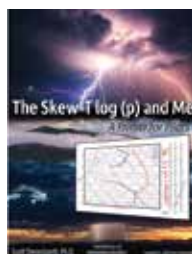
Jacketed Hardback
Pages: 376 P/N 13-23278



FLIGHT TESTING EXPERIMENTAL AMATEUR-BUILT AIRPLANES

This flight test guide presents the essentials of safe and technically sound flight testing to the amateur-builder pilot community in a practical, easy to understand way. The flight test topics deemed important to amateur-builder flight testing derive directly from NTSB recommendations and latest FAA guidance.

Book P/N 13-20142



THE SKEW-T LOG (P) AND ME: A PRIMER FOR PILOTS

To a large extent, the study of weather, better known as meteorology, is rooted in a few fundamental properties. It is these properties that are the key to unlocking all that the Skew-T log (p) diagram has to offer. Even though some of the concepts and dialog presented in this primer are quite challenging even for the most seasoned pilot, they are born out of these fundamental properties of air.

A thermodynamic chart such as the Skew-T log (p) diagram is clearly the best kept secret in aviation. This primer is the most comprehensive resource available for general aviation pilots that want to leverage its use as supplemental weather guidance for preflight route planning. Specifically, the Skew-T log (p) diagram allows you to "drill down" over a particular location to identify or describe adverse weather better in time and space than any other single chart or diagram assuming you know how to unlock its plentiful secrets. Written by aviation weather expert and FAA-certificated instrument flight instructor, Dr. Scott Dennstaedt, this primer is 300 pages in length and contains over 200 hundred charts, diagrams, and photographs to help you quickly understand this complex subject P/N 13-24410



ARE YOUR NUTS TIGHT - GUIDE TO IDENTIFYING PROBLEMS ON YOUR AMATEUR-BUILT AIRCRAFT

If you own an amateur-built aircraft this is the book you need. It contains hundreds of pictures illustrating problem areas that can be unique to amateur-built aircraft. The kits today are much more advanced than in the past, allowing more aircraft to be completed. However, the skills needed to maintain the aircraft tend to be self-taught. This guide will show you where to look for problem areas. It does not tell you how to fix them. That will be in a future maintenance book.

Pages: 85 P/N 13-23351



PRE-BUY: GUIDE FOR AMATEUR-BUILT AIRCRAFT

With over 41 years in aviation, Vic Syracuse is a nationally-recognized expert in pre-buy and DAR services for amateur-built aircraft, especially on the Van's RV series. He has traveled over almost the entire United States, either in his RV-10 or by commercial airlines, and often receives requests for international travel for pre-buy and DAR services. All too many times during a pre-buy inspection Vic has heard the seller comment "I wish I knew of you when I bought the airplane." So, after having inspected over a thousand amateur-built aircraft, Vic felt he

now had enough data and pictures to share with the aviation community so that everyone could potentially accomplish a high-quality pre-buy inspection without his involvement. With close to twenty thousand amateur-built aircraft on the US National Aircraft Registry, the number of aircraft changing hands is rapidly increasing on a weekly basis. Those that have already purchased or have built an amateur-built aircraft will find this book extremely informative and useful when it comes to identifying any potential maintenance or construction issues. It is spiral bound, on 80 lb paper, 109 pages, with over 280 color pictures P/N 13-23349



AVIATION WEATHER SERVICES

This text thoroughly explains the many U.S. aviation weather products and services available to pilots. Weather product examples and explanations are taken primarily from the Aviation Weather Center's Aviation Digital Data Service. The AC provides hundreds of weather website addresses for weather resources and definitions. It is an unprecedented level of convenience and study access for pilots planning flights and researching weather.

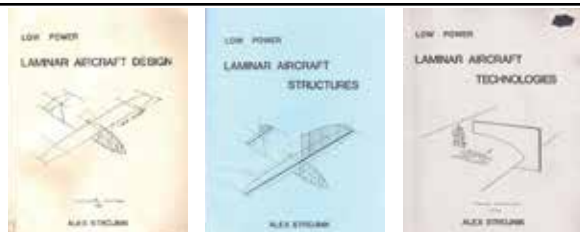
E-Book P/N 13-05914



AVIATE NAVIGATE COMMUNICATE: HOW SEVERE WEATHER AFFECTS AIRPLANES AND PILOTS

"Aviate Navigate Communicate" is the story of Wayne Sand's life flying into and learning about severe weather. "Aviate, Navigate, Communicate" is also a priority sequence learned early in every pilot's career; however, while flying, especially during difficult situations, pilots have trouble remembering and/or applying the sequence.

P/N 13-26076



LOW POWER LAMINAR AIRCRAFT DESIGN

(Alex Strojnik) – Aerodynamics of light aircraft of 40 HP or less.

P/N 13-14200

LOW POWER AIRCRAFT STRUCTURES

(Alex Strojnik) – Stress analysis of aircraft structures in the air and landing, and info. on load conversions.....P/N 13-14300

LOW POWER LAMINAR AIRCRAFT TECHNOLOGIES

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(P/N 13-14500)



SEAPLANE, SKIPLANE, & FLOAT/SKI EQUIPPED HELICOPTER OPERATIONS HANDBOOK

This operational handbook introduces the basic skills necessary for piloting seaplanes, skiplanes, and helicopters equipped with floats or skis. It is primarily intended to assist pilots who already hold private or commercial certificates and who are learning to fly these aircraft types. It is also beneficial to rated seaplane pilots who wish to improve their proficiency, pilots preparing for flights using ski-equipped aircraft, and flight instructors engaged in the instruction of both students and transitioning pilots.

The book introduces the future seaplane or skiplane pilot to the realm of water operations and cold weather operations, and provides information on the performance of procedures required for the addition of a sea class rating in airplanes.....P/N 13-03470



NOTES OF A SEAPLANE INSTRUCTOR: AN INSTRUCTIONAL GUIDE TO SEAPLANE FLYING (BY BURKE MEES)

Gives pilot all the information they need to add a seaplane to their certificate. All the seaplane maneuvers are covered, starting with preflight, through taxiing, takeoff, landing, and postflight procedures; also operating in various water conditions, stability of the aircraft on the water, step-taxi and turn, and much more. Many illustrations, inspired by the author's original seaplane notebook sketches, are included to further explain the concepts. Soft cover, 160 pages, illustrated.

P/N 13-02367



THE LITTLE PLANE THAT COULD - LET'S FLY!

First seen earning his propeller in The Little Plane That Could, Dash returns in Let's Fly, determined to see the world and make friends wherever he goes! So he sets off, armed with a map and a flight plan, nervous about meeting new planes, but determined to give it his best shot.

As well as Dash himself, Dash's mom, Rosie, returns in this story too, and so does Larry

Long-Distance – and there are new friends to meet too: Peter Carbon Cub, Swan the seaplane, and many more, including the truly unique COTW who has been modified so he can explore anywhere in the world!

Aimed at younger readers, this book – along with the first in the series – is perfect for teaching youngsters all about the differences in planes and people in other countries: and how these differences are something to accept and appreciate rather than fear or worry.

LET'S FLY is a perfect addition to any bookshelf, whether it is at home, at school, the local flight school or in the local lending library, and can be read at bedtime, first thing in the morning – or any time, really, when your child needs a spot of world travel and enlightenment!P/N 13-24645



FLYING COLORADO MOUNTAIN WEATHER

This seminal book highlights reading clouds and flying mountain weather. It's a stick and rudder text, including full color photographs printed to art-quality standards. The material explains airplane crashes in all sorts of downdrafts, from lee-side downdrafts in the mountain wave, to windward side flows across the Continental Divide. Microscale weather is a problem not identified at all in general aviation mountain flying, but this book exposes the hazards. The book also contains chapters on flying turbulence, and risk (with examples from mountaineering, as well as paragraphs from famous pilots).

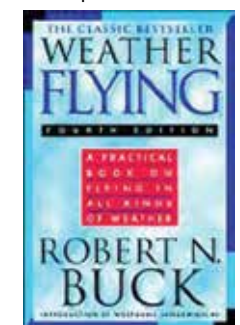
P/N 13-21638



PILOT WEATHER: FROM SOLO TO THE AIRLINES

Welcome to the first edition of Pilot Weather: From Solo to the Airlines. It includes 394 pages, over 400 diagrams and pictures, plus a 550-entry glossary. This book consists of 33 chapters on the A to Z of aviation weather. Not only does it dwell on the theory of meteorology, but includes numerous chapters explaining the details of how to critically decipher many important aviation weather reports and forecasts.

Pilot Weather caters to all pilots...from your first solo to flying for the airlines. Whether you are looking to have a career in aviation or just to poke holes in the sky as a private pilot, this book will not only help you pass those exams, but, more importantly, teach you how to minimize your exposure to adverse weather. The book is printed in full color and many "tidbits of helpful weather goodies you won't find presented in any other aviation book or flight training programs," the authors promise.....P/N 13-22314



WEATHER FLYING

Weather Flying is regarded in the industry as the bible of weather flying. Robert Buck, a general aviation and commercial pilot with tens of thousands of hours of flight time, explains weather in a nontechnical way, giving pilots useful understanding of weather and practical knowledge of how to judge it and fly it. Covers weather flying psychology, en route weather changes, radar and how to use it, taking off in bad weather, and much more. Winner of the Flight Safety Foundation's Publication Award; recommended by the FAA.

P/N 13-27800

THE LITTLE PLANE THAT COULD - DASHING TO THE SAN JUAN ISLANDS CHILDREN'S BOOK



Dash, the star of The Little Plane Who Could and Let's Fly returns for his third adventure. Once again he is going to explore the world – but this time he's going to help out a friend first, by making a delivery for Larry Long-Distance. Once he's completed this mission, he can go anywhere in the world: where will he decide to go? This book is great for young readers who enjoy adventures, feel-good stories and especially good for those whose gazes often turn to the skies, watching birds and planes flying effortlessly overhead! Add it to your home library, the bedtime story folder or just keep it handy for rainy days: no matter where you keep it, it will soon find its way into your young readers' hearts, becoming a firm favorite with the whole family!

P/N 13-25792



THE LITTLE PLANE THAT COULD CHILDRENS BOOK

This illustrated children's book is for all the little boys and girls that love airplanes. You'll encounter Dash who wants to learn to fly and his fellow airplane friends who inspire and share their experiences. Bits of facts about airplanes have been woven into the book, providing little future aviators with a story that lets their love of flight come to life. If your child loves "Super Wings" they are sure to love The Little Plane That Could!

P/N 13-23418

U.S. AND METRIC SYSTEM EQUIVALENTS

LENGTH EQUIVALENTS

Unit	Millimeters	Centimeters	Inches	Feet	Yards	Meters
1 Millimeter=	1	.1	.03937	.003281	.001094	.001
1 Centimeter=	10	1	.3937	.032808	.010936	.01
1 Inch=	25.4001	2.54001	1	.083333	.027778	.025400
1 Foot=	304.801	30.4801	12	1	.333333	.304801
1 Yard=	914.402	91.4402	36	3	1	.914402
1 Meter=	1000	100	39.37	3.28083	1.09361	1

Unit	Feet	Yards	Meters	Rods	Furlongs	Miles (Statute)
1 Rod=	16.5	5.5	5.02921	1	.025 (1/40)	.003125 (1/320)
1 Furlong=	660	220	201.168	40	1	.125 (1/8)
1 Mile (Statute)=	5280	1760	1609.35	320	8	1

1 Nautical Mile = 6080.2 feet = 1.15155 statute miles = 1/3 league.
1 Light Year = 5.879 trillion miles = 9.46 trillion kilometers.

WEIGHT EQUIVALENTS

Unit	Grains	Grams	Ounces (Troy)	Ounces (Avoir.)	Pounds (Troy)	Pounds (Avoir.)	Kilo-grams
1 Grain=	1	.064799	.002083	.002286	.000174	.000143	.000065
1 Gram=	15.4324	1	.032151	.035274	.002679	.002205	.001
1 Ounce (Troy)=	480	31.1035	1	1.09714	.083333	.068571	.031104
1 Ounce (Avoir.)=	437.5	28.3495	.911458	1	.075955	.0625	.028350
1 Pound (Troy)=	5760	373.242	12	13.1657	1	.822857	.373242
1 Pound (Avoir.)=	7000	453.592	14.5833	16	1.21528	1	.453592
1 Kilogram =	15432.4	1000	32.1507	35.2740	2.67923	2.20462	1

Unit	Kilograms	Pounds (Troy)	Pounds (Avoir.)	Metric Tons	Net (Short)	Gross (Long)
1 Metric Ton =	1000	2679.23	2204.62	1	1.10231	.984206
1 Net (Short) Ton=	907.185	2430.56	2000	.907185	1	.892857
1 Gross (Long) Ton=	1016.05	2722.22	2240	1.01605	1.12	1

VOLUME AND CAPACITY EQUIVALENTS

Unit	Cubic CM	Cubic In	Liters	Qts (Liq.)	Qts (Dry)	Gals. (Liq.)	Gals. (Dry)	Cubic Feet
1 Cu. Centimeter=	1	.06102	.001	.00106	.00091	.00026	.00023	.00004
1 Cu. Inch=	16.387	1	.01639	.01732	.01488	.00433	.00372	.00058
1 Gill=	118.29	7.2188	.125	.10742	.03125	.02686	.02686	.00418
1 Pint (Liquid)=	473.18	28.875	.47318	.5	.42968	.125	.10742	.01671
1 Pint (dry)=	550.62	33.600	.55062	.58182	.5	.14546	.125	.01945
1 Liter=	1000	61.023	1	1.0567	.90808	.26417	.22702	.03531
1 Quart (Liquid)=	946.36	57.75	.94636	1	.85937	.25	.21484	.03342
1 Quart (dry)=	1101.2	67.201	1.1012	1.1637	1	.29091	.25	.03889
1 Gallon (Liquid)=	3785.4	231	3.7854	4	3.4375	1	.85937	.13368
1 Gallon (dry)=	4404.9	268.80	4.4049	4.6546	4	1.1636	1	.15556
1 Pack=	8809.8	537.61	8.8098	9.3092	8	2.3273	2	.31111
1 Cu. Foot=	28317.0	1728	28.317	29.922	25.714	7.4805	6.4285	1
1 Bushel=	35239.3	2150.4	35.239	37.237	32	9.3092	8	1.2445
1 Barrel=	119241.2	7276.5	119.24	126	108.28	31.5	27.070	4.2109
1 Cu. Yard=	764559.4	46656	764.56	807.90	694.28	201.97	173.57	27
1 Cu. Meter=	1000000	61023.4	1000	1056.7	908.08	264.17	227.02	35.314

AREA EQUIVALENTS

Unit	Square Inches	Square Feet	Square Yards	Square Meters
1 Square Foot=	144	1	.1111	.09290
1 Square Yard=	1296	9	1	.83613
1 Square Meter =	1550	10.7639	1.19599	1
1 Square Rod=	39204	272.25	30.25	25.293
1 Acre=	155000	1076.39	119.599	100
1 Acre=	6272640	43560	4840	4046.86
1 Square Mile (640 Acres)=	-	27878400	3097600	2589999
1 Square Kilometer=	-	10763867	1195985	1000000

MISCELLANEOUS LIQUID MEASURE CONVERSIONS

1 Fl. Oz. = 1.805 Cu. In.	1 Quart = 946 Cu. Cm.
1 Fl. Oz. = 29.6 Cu. Cm.	1 Gallon = 8 Pints
1 Pint = 16 Fl. Oz.	1 Gallon = 4 Quarts
1 Quart = 32 Fl. Oz.	1 Firkin = 9 Gallons
1 Quart = 2 Pints	1 Hogshead = 63 Gallons

METRIC SYSTEM

LENGTH

1 Meter (m)	=	10 decimeters (dm) 100 centimeters (cm) 1,000 millimeters (mm)
1 dekameter (dkm)	=	10 meters (m)
1 hectometer (hm)	=	100 meters (m)
1 kilometer (km)	=	1,000 meters (m)

WEIGHT

1 gram (g)	=	10 decigrams (dg) 100 centigrams (cg) 1,000 milligrams (mg)
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1 dekagram (dkg)	=	10 grams (g)
1 hectogram (hg)	=	100 grams (g)
1 kilogram (kg)	=	1,000 grams (g)

1 metric ton	=	1,000 kilograms (kg) 1,000,000 grams (g)
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VOLUME & CAPACITY

1 liter (l)	=	1 cubic decimeter (dm ³) 10 deciliters (dl) 100 centiliters (cl) 1,000 milliliters (ml) 1,000 cubic centimeters (cm ³ or cc)
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1 dekaliter (dkl)	=	10 liters (l)
1 hectoliter (hl)	=	100 liters (l)

1 kiloliter (kl)	=	1 cubic meter (m ³) 1 stere (s) 1,000 liters (l)
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AREA

1 centare (ca)	=	1 square meter (m ²) 100 square decimeters (dm ²) 10,000 square centimeters (cm ²) 1,000,000 square millimeters (mm ²)
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1 are (a)	=	1 square dekameter (dkm ²) 100 square meters (m ²)
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1 hectare (ha)	=	100 ares (a) 10,000 square meters (m ²)
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1 square kilometer (km ²)	=	1,000,000 square meters (m ²)
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Other prefixes occasionally used:
micro—one millionth • myria—10,000 times
• deca—10 times (same as deka) • mega—1,000,000 times

AN/MS O-RING EQUIVALENTS

The AN6227B, AN6230B and MS28775 O-Rings have the same composition. For use in aircraft hydraulic systems using MIL-H-5606 petroleum base hydraulic fluid.

AN6227B/MS28775 Equivalents AN6230B/MS28775 Equivalents

AN6227B Dash No.	MS28775 Dash No.	Nominal Size			AN6230B Dash No.	MS28775 Dash No.	Nominal Size		
		Width	I.D.	O.D.			Width	I.D.	O.D.
1	6	1/16	1/8	1/4	1	223	1/8	1-5/8	1-7/8
2	7	1/16	5/32	9/32	2	224	1/8	1-3/4	2
3	8	1/16	3/16	5/16	3	225	1/8	1-7/8	2-1/8
4	9	1/16	7/32	11/32	4	226	1/8	2	2-1/4
5	10	1/16	1/4	3/8	5	227	1/8	2-1/8	2-3/8
6	11	1/16	5/16	7/16	6	228	1/8	2-1/4	2-1/2
7	12	1/16	3/8	1/2	7	229	1/8	2-3/8	2-5/8
8	110	3/32	3/8	9/16	8	230	1/8	2-1/2	2-3/4
9	111	3/32	7/16	5/8	9	231	1/8	2-5/8	2-7/8
10	112	3/32	1/2	11/16	10	232	1/8	2-3/4	3
11	113	3/32	9/16	3/4	11	233	1/8	2-7/8	3-1/8
12	114	3/32	5/8	13/16	12	234	1/8	3	3-1/4
13	115	3/32	11/16	7/8	13	235	1/8	3-1/8	3-3/8
14	116	3/32	3/4	15/16	14	236	1/8	3-1/4	3-1/2
15	210	1/8	3/4	1	15	237	1/8	3-3/8	3-5/8
16	211	1/8	13/16	1-1/16	16	238	1/8	3-1/2	3-3/4
17	212	1/8	7/8	1-1/8	17	239	1/8	3-5/8	3-7/8
18	213	1/8	15/16	1-3/16	18	240	1/8	3-3/4	4
19	214	1/8	1	1-1/4	19	241	1/8	3-7/8	4-1/8
20	215	1/8	1-1/16	1-5/16	20	242	1/8	4	4-1/4
21	216	1/8	1-1/8	1-3/8	21	243	1/8	4-1/8	4-3/8
22	217	1/8	1-3/16	1-7/16	22	244	1/8	4-1/4	4-1/2
23	218	1/8	1-1/4	1-1/2	23	245	1/8	4-3/8	4-5/8
24	219	1/8	1-5/16	1-9/16	24	246	1/8	4-1/2	4-3/4
25	220	1/8	1-3/8	1-5/8	25	247	1/8	4-5/8	4-7/8
26	221	1/8	1-7/16	1-11/16	No MS28775 Equivalent for AN6230B-31 and Larger				
27	222	1/8	1-1/2	1-3/4					
28	325	3/16	1-1/2	1-7/8					
29	326	3/16	1-5/8	2					
30	327	3/16	1-3/4	2-1/8					

CONVERSION CHARTS

FRACTIONAL INCHES CONVERTED TO DECIMAL MILLIMETERS

Fraction of Inch	Decimal Inch	Decimal MM.	Fraction of Inch	Decimal Inch	Decimal MM.	Fraction of Inch	Decimal Inch	Decimal MM.	Fraction of Inch	Decimal Inch	Decimal MM.
1/64	.015625	0.39688	17/64	.265625	6.74689	33/64	.515625	13.09690	49/64	.765625	19.44691
1/32	.03125	0.79375	9/32	.28125	7.14376	17/32	.53125	13.49378	25/32	.78125	19.84379
3/64	.046875	1.19063	19/64	.296875	7.54064	35/64	.546875	13.89065	51/64	.796875	20.24067
1/16	.0625	1.58750	5/16	.3125	7.93752	9/16	.5625	14.28753	13/16	.8125	20.63754
3/64	.078125	1.98438	21/64	.328125	8.33439	37/64	.578125	14.68440	53/64	.828125	21.03442
3/32	.09375	2.38125	11/32	.34375	8.73127	19/32	.59375	15.08128	27/32	.84375	21.43129
7/64	.109375	2.77813	23/64	.359375	9.12814	39/64	.609375	15.47816	55/64	.859375	21.82817
1/8	.125	3.17501	3/8	.375	9.52502	5/8	.625	15.87503	7/8	.875	22.22504
9/64	.140625	3.57188	25/64	.390625	9.92189	41/64	.640625	16.27191	57/64	.890625	22.62192
5/32	.15625	3.96876	13/32	.40625	10.31877	21/32	.65625	16.66878	29/32	.90625	23.01880
11/64	.171875	4.36563	27/64	.421875	10.71565	43/64	.671875	17.06566	59/64	.921875	23.41567
3/16	.1875	4.76251	7/16	.4375	11.11252	11/16	.6875	17.46253	15/16	.9375	23.81255
13/64	.203125	5.15939	29/64	.453125	11.50940	45/64	.703125	17.85941	61/64	.953125	24.20942
7/32	.21875	5.55626	15/32	.46875	11.90627	23/32	.71875	18.25629	31/32	.96875	24.60630
15/64	.234375	5.95314	31/64	.484375	12.30315	47/64	.734375	18.65316	63/64	.984375	25.00318
1/4	.25	6.35001	1/2	.5	12.70003	3/4	.75	19.05004	1	1.	25.40005

MILLIMETERS CONVERTED TO DECIMAL INCHES

Millimeters	INCH EQUIVALENTS									
	0	1	2	3	4	5	6	7	8	9
	0.00000	0.03937	0.07874	0.11811	0.15748	0.19685	0.23622	0.27559	0.31496	0.35433
10	0.39370	0.43307	0.47244	0.51181	0.55118	0.59055	0.06299	0.66929	0.70866	0.74803
20	0.78740	0.82677	0.86614	0.90551	0.94488	0.98425	1.02362	1.06299	1.10236	1.14173
30	1.18110	1.22047	1.25984	1.29921	1.33858	1.37795	1.41732	1.45669	1.49606	1.53543
40	1.57480	1.61417	1.65354	1.69291	1.73228	1.77165	1.81102	1.85039	1.88976	1.92913
50	1.96850	2.00787	2.04724	2.08661	2.12598	2.16535	2.20472	2.24409	2.28346	2.32283
60	2.36220	2.40157	2.44094	2.48031	2.51968	2.55905	2.59842	2.63779	2.67716	2.71653
70	2.75590	2.79527	2.83464	2.87401	2.91338	2.95275	2.99212	3.03149	3.07086	3.11023
80	3.14960	3.18897	3.22834	3.26771	3.30708	3.34645	3.38582	3.42519	3.46456	3.50393
90	3.54330	3.58267	3.62204	3.66141	3.70078	3.74015	3.77952	3.81889	3.85826	3.89763
100	3.93700	3.97637	4.01574	4.05511	4.09448	4.13385	4.17322	4.21259	4.25196	4.29133
110	4.33070	4.37007	4.40944	4.44881	4.48818	4.52755	4.56692	4.60629	4.64566	4.68503
120	4.72440	4.76377	4.80314	4.84251	4.88188	4.92125	4.96062	4.99999	5.03936	5.07873
130	5.11810	5.15747	5.19684	5.23621	5.27558	5.31495	5.35432	5.39369	5.43306	5.47243
140	5.51180	5.55117	5.59054	5.62991	5.66928	5.70865	5.74802	5.78739	5.82676	5.86613
150	5.90550	5.94487	5.98424	6.02361	6.06298	6.10235	6.14172	6.18109	6.22046	6.25983
160	6.29920	6.33857	6.37794	6.41731	6.45668	6.49605	6.53542	6.57479	6.61416	6.65353
170	6.69290	6.73227	6.77164	6.81101	6.85038	6.88975	6.92912	6.96849	7.00786	7.04723
180	7.08660	7.12597	7.16534	7.20471	7.24408	7.28345	7.32282	7.36219	7.40156	7.44093
190	7.48030	7.51967	7.55904	7.59841	7.63778	7.67715	7.71652	7.75589	7.79526	7.83463
200	7.87400	7.91337	7.95274	7.99211	8.03148	8.07085	8.11022	8.14959	8.18896	8.22833
210	8.26770	8.30707	8.34644	8.38581	8.42518	8.46455	8.50392	8.54329	8.58266	8.62203
220	8.66140	8.70077	8.74014	8.77951	8.81888	8.85825	8.89762	8.93699	8.97636	9.01573
230	9.05510	9.09447	9.13384	9.17321	9.21258	9.25195	9.29132	9.33069	9.37006	9.40943
240	9.44880	9.48817	9.52754	9.56691	9.60628	9.64565	9.68502	9.72439	9.76376	9.80313
250	9.84250	9.88187	9.92124	9.96061	9.99998	10.03935	10.07872	10.11809	10.15746	10.19683
260	10.23620	10.27557	10.31494	10.35431	10.39368	10.43305	10.47242	10.51179	10.55116	10.59053
270	10.62990	10.66927	10.70864	10.74801	10.78738	10.82675	10.86612	10.90549	10.94486	10.98423
280	11.02360	11.06297	11.10234	11.14171	11.18108	11.22045	11.25982	11.29919	11.33856	11.37793
290	11.41730	11.45667	11.49604	11.53541	11.57478	11.61415	11.65352	11.69289	11.73226	11.77163