

ENGINEERING REFERENCE MANUALS

ACCEPTABLE METHODS, TECHNIQUES & PRACTICES

Contains "Aircraft Inspection & Repair" (AC43.13-1A) and "Aircraft Alterations" (AC43.13-1B with change 1). These valuable FAA manuals originally published by the US Government Printing Office, have been combined and reprinted in a single volume. 393 pages. EA-AC 43.13-1A-2A P/N 13-11350

ASA AIRCRAFT INSPECTION, REPAIR & ALTERATIONS - The "bible" for AMTs, aircraft owners, and homebuilders, 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 2B. P/N 13-06050

STANDARD AIRCRAFT HANDBOOK (LEAVELL & BUNGAY) - This handy book contains a wealth of information with illustrated chapters on riveting, bolts and fasteners, tools and their proper use, assembly and installation methods, materials and fabrication, blueprint reading, lofting and templates. 292 pgs, paperback. 6th edition. P/N 13-11400

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COMPOSITE AIRCRAFT DESIGN (MARTIN HOLLMAN) - A very popular new book from the designer of several innovative composite aircraft. Describes the history of composite aircraft development and provides technical information & sources for the many composite materials in use today. Filled with photos, sketches and graphs. 88 pages. P/N 13-11700

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AIRPLANE DESIGN (DONALD R. CRAWFORD) - Collected reprints of a series of technical articles on airplane design printed first in KITPLANES magazine are bound in a single 114 page volume. Easy-to-use BASIC computer programs (with fully annotated source listings included) are applied to sample problems. Detailed derivations of the governing equations provide the necessary technical background for the solution method. A disk of the computer programs and sample output is available for the IBM-PC and compatibles. P/N 13-16825

MODERN AIRCRAFT DESIGN, VOLUME 1 (MARTIN HOLLMAN) 6TH EDITION - A complete look at the designing of an aircraft from the configuration evaluation to performance calculations, configuration sizing, loads analysis per FAR 23, composite materials properties, structural sizing, building and flight testing. This book also explains how to perform full-scale finite element analysis on the MacIntosh personal computer. 195 pgs, over 100 illus. P/N 13-12100

MODERN AIRCRAFT DESIGN, VOLUME 2 (MARTIN HOLLMAN) 6TH EDITION - A continuation of the immensely popular Volume 1 and such topics as new computer programs (software and hardware), drive shaft sizing, and the use of prepreg composite aircraft parts are discussed. Knowledge of these topics is essential in designing aircraft made of composite materials and using the latest state-of-the-art technology. Vol. 2 assumes the reader has read Vol 1. P/N 13-12200

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UNDERSTANDING AIRCRAFT COMPOSITE CONSTRUCTION - This book was written to provide a basic understanding of composite technology prior to commencing a composite project. The book discusses the very elementary theory of beams and sandwich structures, then extends this to composite structures. The well-known moldless (Rutan) techniques are described as well as a detailed description of vacuum bagging techniques suitable for the homebuilder. P/N 13-12350

INDUSTRIAL RESIN PUTTYS (JOHN WILLS) - A shop manual describing how to formulate over 100 filled polyester, epoxy, phenolic and acrylic resin compounds. Resin putty formulations for composite and foam construction are included. A "must" for builders of an original fiberglass design. 68 pages, 48 illus. P/N 13-12400

GEL COAT FORMULATION (JOHN WILLS) - Explains what gel coat is and how it works. Formulas for all types of polyester gel coats with step-by-step mixing procedures are given. Excellent for all builders making fiberglass molds and parts. P/N 13-12500

MODERN GYROPLANE DESIGN (MARTIN HOLLMAN) - A thorough discussion of gyroplane design and performance calculations. Includes configuration design and structural analysis of rotor blades in flight, as well as practical examples and a complete list of references. Furnished with software. P/N 13-03058

FLYING THE GYROPLANE (MARTIN HOLLMAN) - Covers the history of rotorcraft including da Vinci, Focke, Benson, and the Sportster and Bumble Bee designed by the author. Original flight reports from the test pilots of the C-30, Rotachute and many others. A must for any rotorcraft enthusiast. P/N 13-13000

HOW TO BUILD COMPOSITE AIRCRAFT (MARTIN HOLLMAN) - You will learn how to assemble kit aircraft made out of graphite/epoxy such as the Lancair IV and Stallion and how to build plugs and molds for these type of aircraft and where to buy the materials at low cost. Once the molds are built, you will learn how to vacuum bag parts using prepreg materials. You will also learn how to build your own aircraft design out of composite materials using a low cost method for shaping fuselage and wing parts out of Last-A-Foam and the wet layup method to build sandwich structures. P/N 13-12205

AIRCRAFT DESIGN: A CONCEPTUAL APPROACH, FOURTH EDITION - This highly regarded textbook presents the entire process of aircraft conceptual design—from requirements definition to initial sizing, configuration layout, analysis, sizing, and trade studies—in the same manner seen in industry aircraft design groups. Interesting and easy to read, the book has more than 900 pages of design methods, illustrations, tips, explanations, and equations, and has extensive appendices with key data essential to design. Introduction to spaceflight and rockets including thrust analysis and vehicle sizing for launch and planetary missions. Software (P/N 13-04238) and Book/Software Combo (P/N 13-04561) also available. Book..... P/N 13-04237

Software..... P/N 13-04238

Book & Software.... P/N 13-04561

HOW TO COOL YOUR WANKEL - This 100 page book can be used as a guide when designing a liquid cooled Wankel rotary engine installation in an experimental aircraft. Information from the Aircraft Rotary Engine Internet Newsletter and a compilation of the published information from the established international experts in the field over the last seventy years. Includes a bibliography. The information applies to any liquid cooled aircraft engine. Printed on heavy weight gloss paper with many color illustrations and pictures (Sizes 8-3/8 x 10-1/2 x 1/2). P/N 13-04888

