

The book was found

Airplane Design Part I : Preliminary Sizing Of Airplanes



Synopsis

Airplane Design Part I: Preliminary Sizing of Airplanes is the first book in a series of eight volumes on airplane design. The airplane design series has been internationally acclaimed as a practical reference that covers the methodology and decision making involved in the process of designing airplanes. Educators and industry practitioners across the globe rely on this compilation as both a textbook and a key reference. Airplane Design Part I: Preliminary Sizing of Airplanes familiarizes the reader with the following fundamentals: - Estimating take-off gross weight, empty weight and mission fuel weight - Sensitivity studies and growth factors - Estimating wing area - Take-off thrust and maximum clean, take-off and landing lift - Sizing to stall speed, take-off distance, landing distance, climb, maneuvering and cruise speed requirements - Matching of all performance requirements via performance matching diagrams

Book Information

Series: Airplane Design

Paperback: 220 pages

Publisher: Design, Analysis and Research Corporation (DARcorporation) (September 18, 2015)

Language: English

ISBN-10: 188488542X

ISBN-13: 978-1884885426

Product Dimensions: 8.5 x 0.5 x 11 inches

Shipping Weight: 13.6 ounces (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #106,016 in Books (See Top 100 in Books) #9 in Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction #56 in Books > Textbooks > Engineering > Aeronautical Engineering #140 in Books > Science & Math > Astronomy & Space Science > Aeronautics & Astronautics

Customer Reviews

Dr. Jan Roskam has authored ten books on airplane flight dynamics and airplane design. He co-authored Airplane Aerodynamics and Performance with Dr. CT. Lan. He has written more than 160 papers on these topics and authored the popular Roskam's War Stories. He has actively participated in more than 36 major airplane programs. He retired as Ackers Distinguished Professor of Aerospace Engineering at The University of Kansas (KU) in 2003, where he taught airplane design, stability and control. Dr. Roskam retired as President of DARcorporation (Design, Analysis

and Research Corporation) in 2004. He currently serves as an active consultant for DARcorporation, which develops and markets airplane design and analysis software, and is a successful private and government consulting firm.

Very good reference book.

The data in this book goes back to the 1930's, but for an undergraduate level book that is supposed to give you an understanding of the design process behind an airplane, it's not so bad. It does a great job of explaining most of the variables, although there are some "referenced materials" that are extremely difficult to find. However, this book, and all the preceding versions cover the airplane design process in excruciating detail, so hopefully by the time you've gone through them all, you will be able to design a fully functional, statically (and dynamically) stable airplane that meets all of the FAA requirements.

[Download to continue reading...](#)

Airplane Design Part I : Preliminary Sizing of Airplanes Airplane Design, Part II : Preliminary Configuration Design and Integration of the Propulsion System Michael LaFosse's Origami Airplanes: 28 Easy-to-Fold Paper Airplanes from America's Top Origami Designer!: Includes Paper Airplane Book, 28 Projects and DVD Airplane Design Part VI : Preliminary Calculation of Aerodynamic Thrust and Power Characteristics Children's Book About Airplanes: A Kids Picture Book About Airplanes With Photos and Fun Facts Origami Airplanes Fun Pack: Make Fun and Easy Paper Airplanes with This Great Origami-for-Kids Kit: Origami Book with 48 High-Quality Origami Papers Ultimate Paper Airplanes for Kids: The Best Guide to Paper Airplanes!: Includes Instruction Book with 12 Innovative Designs & 48 Tear-Out Paper Planes Fun & Easy Paper Airplanes: This Easy Paper Airplanes Book Contains 16 Fun Projects, 84 Papers & Instruction Book: Great for Both Kids and Parents Airplane Design Part IV: Layout Design of Landing Gear and Systems (Volume 4) Airplane Design Part III: Layout Design of Cockpit, Fuselage, Wing and Empennage: Cutaways and Inboard Profiles (Volume 3) The Ultimate Solar Power Design Guide: Less Theory More Practice (The Missing Guide For Proven Simple Fast Sizing Of Solar Electricity Systems For Your Home or Business) Private Pilot Airman Certification Standards - Airplane: FAA-S-ACS-6, for Airplane Single- and Multi-Engine Land and Sea (Practical Test Standards series) Commercial Pilot Airman Certification Standards - Airplane: FAA-S-ACS-7, for Airplane Single- and Multi-Engine Land and Sea (Airman Certification Standards Series) TAKING THE FALL - The Complete Series: Part One, Part, Two, Part Three & Part Four Airplane Design Part V: Component Weight Estimation Airplane

Design Part VII: Determination of Stability, Control and Performance Characteristics (Volume 7)
Airplane Design Part VIII (Volume 8) Goss's Roofing Ready Reckoner: Metric Cutting and Sizing
Tables for Timber Roof Members Shoe Sizing and Fitting - An Analysis of Practices and Trends The
Architect's Studio Companion: Rules of Thumb for Preliminary Design

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)