

# FUNDAMENTALS OF AIRCRAFT AND AIRSHIP DESIGN

## *Volume I—Aircraft Design*

Leland M. Nicolai  
Grant E. Carichner



American Institute of  
Aeronautics and Astronautics

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# Fundamentals Of Aircraft Design

**John P. Fielding**



## **Fundamentals Of Aircraft Design:**

**Fundamentals of Aircraft and Airship Design: Aircraft design. Introduction ; Review of practical aerodynamics ; Aircraft performance methods ; Aircraft operating envelope ; Preliminary estimate of takeoff weight ; Estimating the takeoff wing loading ; Selecting the planform and airfoil section ; Preliminary fuselage sizing and design ; High-lift devices ; Takeoff and landing analysis ; Preliminary sizing of the vertical and horizontal tails ; Designing for survivability (stealth) ; Estimating wing-body aerodynamics ; Propulsion system fundamentals ; Turbine engine inlet design ; Corrections for turbine engine installation ; Propeller propulsion systems ; Propulsion system thrust sizing ; Structures and materials ; Refined weight estimate ; Static stability and control ; Trim drag and maneuvering flight ; Control surface sizing criteria ; Life cycle cost ; Trade studies and sizing**

Leland M. Nicolai, Grant Carichner, 2010      **Fundamentals of Aircraft and Airship Design** Leland Malcolm Nicolai, Grant Carichner, 2010 The aircraft is only a transport mechanism for the payload and all design decisions must consider payload first Simply stated the aircraft is a dust cover Fundamentals of Aircraft and Airship Design Volume 1 Aircraft Design emphasizes that the science and art of the aircraft design process is a compromise and that there is no right answer however there is always a best answer based on existing requirements and available technologies      **Unmanned Aircraft Design**

Mohammad Sadraey, 2017-09-19 This book provides fundamental principles design procedures and design tools for unmanned aerial vehicles UAVs with three sections focusing on vehicle design autopilot design and ground system design The design of manned aircraft and the design of UAVs have some similarities and some differences They include the design process constraints e g g load pressurization and UAV main components autopilot ground station communication sensors and payload A UAV designer must be aware of the latest UAV developments current technologies know lessons learned from past failures and they should appreciate the breadth of UAV design options The contribution of unmanned aircraft continues to expand every day and over 20 countries are developing and employing UAVs for both military and scientific purposes A UAV system is much more than a reusable air vehicle or vehicles UAVs are air vehicles they fly like airplanes and operate in an airplane environment They are designed like air vehicles they have to meet flight critical air vehicle requirements A designer needs to know how to integrate complex multi disciplinary systems and to understand the environment the requirements and the design challenges and this book is an excellent overview of the fundamentals from an engineering perspective This book is meant to meet the needs of newcomers into the world of UAVs The materials are intended to provide enough information in each area and illustrate how they all play together to support the design of a complete UAV Therefore this book can be used both as a reference for engineers entering the field or as a supplementary text for a UAV design course to provide system level context for each specialized topic      *Fundamentals of Aircraft and Airship Design* Leland Malcolm Nicolai, 2010

**Unmanned Aircraft Design** Mohammad Sadraey, 2017-09 This book provides fundamental principles design procedures

and design tools for unmanned aerial vehicles UAVs with three sections focusing on vehicle design autopilot design and ground system design The design of manned aircraft and the design of UAVs have some similarities and some differences They include the design process constraints e g g load pressurization and UAV main components autopilot ground station communication sensors and payload A UAV designer must be aware of the latest UAV developments current technologies know lessons learned from past failures and they should appreciate the breadth of UAV design options The contribution of unmanned aircraft continues to expand every day and over 20 countries are developing and employing UAVs for both military and scientific purposes A UAV system is much more than a reusable air vehicle or vehicles UAVs are air vehicles they fly like airplanes and operate in an airplane environment They are designed like air vehicles they have to meet flight critical air vehicle requirements A designer needs to know how to integrate complex multi disciplinary systems and to understand the environment the requirements and the design challenges and this book is an excellent overview of the fundamentals from an engineering perspective This book is meant to meet the needs of newcomers into the world of UAVs The materials are intended to provide enough information in each area and illustrate how they all play together to support the design of a complete UAV Therefore this book can be used both as a reference for engineers entering the field or as a supplementary text for a UAV design course to provide system level context for each specialized topic

**Fundamentals of Aircraft Design** Leland M. Nicolai (Leland Malcolm),1984 **Introduction to Aircraft Design** John P. Fielding,1999-10-14 Giving a largely descriptive overview of all aspects of the design process this well illustrated account provides an insight into the requirements of each specialist in an aircraft design team After discussing the need for new designs the text assesses the merits of different aircraft shapes from micro lights and helicopters to super jumbos and V STOL aircraft Back cover

**Fundamentals of Aircraft Design** Leland Malcolm Nicolai,1984 **Fundamentals of Aircraft Design** Leland M. Nicolai,1984 Aircraft Design Concepts James DeLaurier,2022-05-15 Aircraft Design Concepts An Introductory Course introduces the principles of aircraft design through a quantitative approach developed from the author s extensive experience in teaching aircraft design Building on prerequisite courses the text develops basic design skills and methodologies while also explaining the underlying physics The book uses a historical approach to examine a wide range of aircraft types and their design Numerous charts photos and illustrations are provided for in depth view of aeronautical engineering It addresses conventional tail aft monoplanes flying wing biplane and canard configurations Providing detailed analysis of propeller performance the book starts with simple blade element theory and builds to the Weick method Written for senior undergraduate and graduate students taking a single semester course on Aircraft Design or Aircraft Performance the book imparts both the technical knowledge and creativity needed for aircraft design Aircraft Design Mohammad H. Sadraey,2024-10-15 Learn the aircraft design process from a systems engineering perspective designed for both aspiring and practicing aerospace engineers Aircraft design incorporates a range of technological areas including aerodynamics flight

dynamics propulsion and structure Aircraft engineering design therefore requires techniques from systems engineering to integrate the requirements from these disparate areas into a coherent whole There has never been a greater need for successful aerospace engineers to have a grasp of systems engineering and its applications in the field Aircraft Design A Systems Engineering Approach meets this need with a volume which takes the reader from conceptual design to detail design Offering a systems engineering approach that weighs the needs of different aircraft components holistically it provides readers with a practical look into the process of aircraft design Now fully updated to reflect the latest industry developments it promises to continue as an indispensable tool for modern students in the field Readers of the second edition of Aircraft Design will also find Brand new material on structural design spoiler design winglets aircraft modification and modernization and more Detailed discussion of emerging topics including all electric aircraft design VTOL aircraft design and many others Guidance on the latest FAA requirements with a design impact Aircraft Design is ideal for senior undergraduate and graduate students interested in aircraft design advanced aircraft design and air vehicle design The book may also be of interest to mechanical industrial and systems engineers working in the aerospace sector

### **Conceptual Aircraft Design**

Ajoy Kumar Kundu, Mark A. Price, David Riordan, 2019-01-02 Provides a Comprehensive Introduction to Aircraft Design with an Industrial Approach This book introduces readers to aircraft design placing great emphasis on industrial practice It includes worked out design examples for several different classes of aircraft including Learjet 45 Tucano Turboprop Trainer BAe Hawk and Airbus A320 It considers performance substantiation and compliance to certification requirements and market specifications of take off landing field lengths initial climb high speed cruise turning capability and payload range Military requirements are discussed covering some aspects of combat as is operating cost estimation methodology safety considerations environmental issues flight deck layout avionics and more general aircraft systems The book also includes a chapter on electric aircraft design along with a full range of industry standard aircraft sizing analyses Split into two parts Conceptual Aircraft Design An Industrial Approach spends the first part dealing with the pre requisite information for configuring aircraft so that readers can make informed decisions when designing vessels The second part devotes itself to new aircraft concept definition It also offers additional analyses and design information e g on cost manufacture systems role of CFD etc integral to conceptual design study The book finishes with an introduction to electric aircraft and futuristic design concepts currently under study Presents an informative industrial approach to aircraft design Features design examples for aircraft such as the Learjet 45 Tucano Turboprop Trainer BAe Hawk Airbus A320 Includes a full range of industry standard aircraft sizing analyses Looks at several performance substantiation and compliance to certification requirements Discusses the military requirements covering some combat aspects Accompanied by a website hosting supporting material Conceptual Aircraft Design An Industrial Approach is an excellent resource for those designing and building modern aircraft for commercial military and private use

Aircraft Design Projects Lloyd R. Jenkinson, Jim Marchman, 2003-04-28 Written with

students of aerospace or aeronautical engineering firmly in mind this is a practical and wide ranging book that draws together the various theoretical elements of aircraft design structures aerodynamics propulsion control and others and guides the reader in applying them in practice Based on a range of detailed real life aircraft design projects including military training commercial and concept aircraft the experienced UK and US based authors present engineering students with an essential toolkit and reference to support their own project work All aircraft projects are unique and it is impossible to provide a template for the work involved in the design process However with the knowledge of the steps in the initial design process and of previous experience from similar projects students will be freer to concentrate on the innovative and analytical aspects of their course project The authors bring a unique combination of perspectives and experience to this text It reflects both British and American academic practices in teaching aircraft design Lloyd Jenkinson has taught aircraft design at both Loughborough and Southampton universities in the UK and Jim Marchman has taught both aircraft and spacecraft design at Virginia Tech in the US Demonstrates how basic aircraft design processes can be successfully applied in reality Case studies allow both student and instructor to examine particular design challenges Covers commercial and successful student design projects and includes over 200 high quality illustrations

**Introduction to Aircraft Design, second edition** John P. Fielding, 2017-04-03 This new edition provides a modern accessible introduction to the whole process of aircraft design together with invaluable data

**Official Gazette** Philippines, 2008

Jet Sense: The Philosophy and the Art of Jet Transport Design Zarir D. Pastakia, 2024-02-06 Embark on an exciting aviation journey with Jet Sense Zarir s groundbreaking book that unveils the intricacies of commercial aircraft design This work offers an enlightening perspective for aviation enthusiasts and industry professionals Explore the heart of aircraft design where market demands shape every curve and detail Zarir s expertise guides you through the art of compromise creating aircraft that excel in both function and market appeal What sets Jet Sense apart is its unwavering focus on the interplay of geometry and integration From wing design to landing gear integration and more This book doesn t just analyze it guides helping you navigate the complex world of jet transport design Discover Zarir s innovative approach to initial sizing tailored for commercial aircraft Bid farewell to one size fits all solutions and welcome a design philosophy aligned with market needs Whether you re in single aisle workhorses or long haul twin aisle giants Jet Sense is your essential companion Zarir s wealth of meticulously gathered data ensures you work with trusted solutions Jet Sense is your ultimate resource for commercial aircraft design a must have for every designer Whether you re a pilot aviation executive enthusiast or aerospace professional prepare for an engaging read that demystifies the secrets of aviation design Enjoy the journey Jet Sense focuses on commercial aircraft It is not an introductory aircraft design book covering all types of aircraft But for commercial aircraft designers this should be on every designer s desk Scott Eberhardt Ph D Aerospace Consultant and Author of Understanding Flight ISBN 9781468605990 ISBN 9781468606003 ISBN 9781468606010 DOI 10 4271 9781468606003

Theory and Practice of Aircraft Performance Ajay

Kumar Kundu, Mark A. Price, David Riordan, Peter Belobaba, Jonathan Cooper, Allan Seabridge, 2016-09-02 Textbook introducing the fundamentals of aircraft performance using industry standards and examples bridging the gap between academia and industry Provides an extensive and detailed treatment of all segments of mission profile and overall aircraft performance Considers operating costs safety environmental and related systems issues Includes worked examples relating to current aircraft Learjet 45 Tucano Turboprop Trainer Advanced Jet Trainer and Airbus A320 types of aircraft Suitable as a textbook for aircraft performance courses      **Aircraft Performance** Mohammad H. Sadraey, 2017-01-27 Aircraft Performance An Engineering Approach introduces flight performance analysis techniques that enable readers to determine performance and flight capabilities of aircraft Flight performance analysis for prop driven and jet aircraft is explored supported by examples and illustrations many in full color MATLAB programming for performance analysis is included and coverage of modern aircraft types is emphasized The text builds a strong foundation for advanced coursework in aircraft design and performance analysis      **Aircraft Propulsion** Saeed Farokhi, 2014-04-01 New edition of the successful textbook updated to include new material on UAVs design guidelines in aircraft engine component systems and additional end of chapter problems Aircraft Propulsion Second Edition follows the successful first edition textbook with comprehensive treatment of the subjects in airbreathing propulsion from the basic principles to more advanced treatments in engine components and system integration This new edition has been extensively updated to include a number of new and important topics A chapter is now included on General Aviation and Uninhabited Aerial Vehicle UAV Propulsion Systems that includes a discussion on electric and hybrid propulsion Propeller theory is added to the presentation of turboprop engines A new section in cycle analysis treats Ultra High Bypass UHB and Geared Turbofan engines New material on drop in biofuels and design for sustainability is added to reflect the FAA's 2025 Vision In addition the design guidelines in aircraft engine components are expanded to make the book user friendly for engine designers Extensive review material and derivations are included to help the reader navigate through the subject with ease Key features General Aviation and UAV Propulsion Systems are presented in a new chapter Discusses Ultra High Bypass and Geared Turbofan engines Presents alternative drop in jet fuels Expands on engine components design guidelines The end of chapter problem sets have been increased by nearly 50% and solutions are available on a companion website Presents a new section on engine performance testing and instrumentation Includes a new 10 Minute Quiz appendix with 45 quizzes that can be used as a continuous assessment and improvement tool in teaching learning propulsion principles and concepts Includes a new appendix on Rules of Thumb and Trends in aircraft propulsion Aircraft Propulsion Second Edition is a must have textbook for graduate and undergraduate students and is also an excellent source of information for researchers and practitioners in the aerospace and power industry      Aircraft Design Mohammad H. Sadraey, 2012-11-20 A comprehensive approach to the air vehicle design process using the principles of systems engineering Due to the high cost and the risks associated with development complex aircraft systems have become a prime

candidate for the adoption of systems engineering methodologies This book presents the entire process of aircraft design based on a systems engineering approach from conceptual design phase through to preliminary design phase and to detail design phase Presenting in one volume the methodologies behind aircraft design this book covers the components and the issues affected by design procedures The basic topics that are essential to the process such as aerodynamics flight stability and control aero structure and aircraft performance are reviewed in various chapters where required Based on these fundamentals and design requirements the author explains the design process in a holistic manner to emphasise the integration of the individual components into the overall design Throughout the book the various design options are considered and weighed against each other to give readers a practical understanding of the process overall Readers with knowledge of the fundamental concepts of aerodynamics propulsion aero structure and flight dynamics will find this book ideal to progress towards the next stage in their understanding of the topic Furthermore the broad variety of design techniques covered ensures that readers have the freedom and flexibility to satisfy the design requirements when approaching real world projects Key features Provides full coverage of the design aspects of an air vehicle including aeronautical concepts design techniques and design flowcharts Features end of chapter problems to reinforce the learning process as well as fully solved design examples at component level Includes fundamental explanations for aeronautical engineering students and practicing engineers Features a solutions manual to sample questions on the book s companion website Companion website [www.wiley.com/go/sadraey](http://www.wiley.com/go/sadraey)

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