



Egbert Torenbeek

Advanced Aircraft Design

**Conceptual Design, Analysis and
Optimization of Subsonic Civil Airplanes**

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Advanced Aircraft Design Conceptual Design Technology And Optimization Of Subsonic Civil Airplanes

Roberto Sabatini, Alessandro Gardi



Advanced Aircraft Design Conceptual Design Technology And Optimization Of Subsonic Civil Airplanes:

Advanced Aircraft Design Egbert Torenbeek, 2013-07-29 Although the overall appearance of modern airliners has not changed a lot since the introduction of jetliners in the 1950s their safety efficiency and environmental friendliness have improved considerably Main contributors to this have been gas turbine engine technology advanced materials computational aerodynamics advanced structural analysis and on board systems Since aircraft design became a highly multidisciplinary activity the development of multidisciplinary optimization MDO has become a popular new discipline Despite this the application of MDO during the conceptual design phase is not yet widespread Advanced Aircraft Design Conceptual Design Analysis and Optimization of Subsonic Civil Airplanes presents a quasi analytical optimization approach based on a concise set of sizing equations Objectives are aerodynamic efficiency mission fuel empty weight and maximum takeoff weight Independent design variables studied include design cruise altitude wing area and span and thrust or power loading Principal features of integrated concepts such as the blended wing and body and highly non planar wings are also covered The quasi analytical approach enables designers to compare the results of high fidelity MDO optimization with lower fidelity methods which need far less computational effort Another advantage to this approach is that it can provide answers to what if questions rapidly and with little computational cost Key features Presents a new fundamental vision on conceptual airplane design optimization Provides an overview of advanced technologies for propulsion and reducing aerodynamic drag Offers insight into the derivation of design sensitivity information Emphasizes design based on first principles Considers pros and cons of innovative configurations Reconsiders optimum cruise performance at transonic Mach numbers Advanced Aircraft Design Conceptual Design Analysis and Optimization of Subsonic Civil Airplanes advances understanding of the initial optimization of civil airplanes and is a must have reference for aerospace engineering students applied researchers aircraft design engineers and analysts

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 **Design**

Optimization of Unmanned Aerial Vehicles Athanasios Papageorgiou, 2019-11-13 Over the last years Unmanned Aerial Vehicles UAVs have gradually become a more efficient alternative to manned aircraft and at present they are being deployed in a broad spectrum of both military as well as civilian missions This has led to an unprecedented market expansion with new challenges for the aeronautical industry and as a result it has created a need to implement the latest design tools in order to achieve faster idea to market times and higher product performance As a complex engineering product UAVs are comprised of numerous sub systems with intricate synergies and hidden dependencies To this end Multidisciplinary Design Optimization MDO is a method that can identify systems with better performance through the concurrent consideration of several engineering disciplines under a common framework Nevertheless there are still many limitations in MDO and to this date some of the most critical gaps can be found in the disciplinary modeling in the analysis capabilities and in the organizational integration of the method As an aeronautical product UAVs are also expected to work together with other systems and to perform in various operating environments In this respect System of Systems SoS models enable the exploration of design interactions in various missions and hence they allow decision makers to identify capabilities that are beyond those of each individual system As expected this significantly more complex formulation raises new challenges regarding the decomposition of the problem while at the same time it sets further requirements in terms of analyses and mission simulation In this light this thesis focuses on the design optimization of UAVs by enhancing the current MDO capabilities and by exploring the use of SoS models Two literature reviews serve as the basis for identifying the gaps and trends in the field and in turn five case studies try to address them by proposing a set of expansions On the whole the problem is approached from a technical as well as an organizational point of view and thus this research aims to propose solutions that can lead to better performance and that are also meaningful to the Product Development Process PDP Having established the above foundation this work delves firstly into MDO and more specifically it presents a framework that has been enhanced with further system models and analysis capabilities efficient computing solutions and data visualization tools At a secondary level this work addresses the topic of SoS and in particular it presents a multi level decomposition strategy multi fidelity disciplinary models and a mission simulation module Overall this thesis presents quantitative data which aim to illustrate the benefits of design

optimization on the performance of UAVs and it concludes with a qualitative assessment of the effects that the proposed methods and tools can have on both the PDP and the organization

Sustainable Aviation Technology and Operations Roberto Sabatini, Alessandro Gardi, 2023-09-12 Sustainable Aviation Technology and Operations Comprehensively covers research and development initiatives to enhance the environmental sustainability of the aviation sector Sustainable Aviation Technology and Operations provides a comprehensive and timely outlook of recent research advances in aeronautics and air transport with emphasis on both long term sustainable development goals and current achievements This book discusses some of the most promising advances in aircraft technologies air traffic management and systems engineering methodologies for sustainable aviation The topics covered include propulsion aerodynamics avionics structures materials airspace management biofuels and sustainable lifecycle management The physical processes associated with various aircraft emissions including air pollutants noise and contrails are presented to support the development of computational models for aircraft design flight path optimization and environmental impact assessment Relevant advances in systems engineering and lifecycle management processes are also covered bridging some of the existing gaps between academic research and industry best practices A collection of research case studies complements the book highlighting opportunities for a timely uptake of the most promising technologies towards a more efficient and environmentally sustainable aviation future Key features Contains important research and industry relevant contributions from world class experts Addresses recent advances in aviation sustainability including multidisciplinary design approaches and multi objective operational optimisation methods Includes a number of research case studies addressing propulsion aerostructures alternative aviation fuels avionics air traffic management and sustainable lifecycle management solutions Sustainable Aviation Technology and Operations is an excellent book for aerospace engineers aviation scientists researchers and graduate students involved in the field

Advanced UAV Aerodynamics, Flight Stability and Control Pascual Marqués, Andrea Da Ronch, 2017-07-11

Comprehensively covers emerging aerospace technologies Advanced UAV aerodynamics flight stability and control Novel concepts theory and applications presents emerging aerospace technologies in the rapidly growing field of unmanned aircraft engineering Leading scientists researchers and inventors describe the findings and innovations accomplished in current research programs and industry applications throughout the world Topics included cover a wide range of new aerodynamics concepts and their applications for real world fixed wing airplanes rotary wing helicopter and quad rotor aircraft The book begins with two introductory chapters that address fundamental principles of aerodynamics and flight stability and form a knowledge base for the student of Aerospace Engineering The book then covers aerodynamics of fixed wing rotary wing and hybrid unmanned aircraft before introducing aspects of aircraft flight stability and control Key features Sound technical level and inclusion of high quality experimental and numerical data Direct application of the aerodynamic technologies and flight stability and control principles described in the book in the development of real world novel unmanned aircraft concepts

Written by world class academics engineers researchers and inventors from prestigious institutions and industry The book provides up to date information in the field of Aerospace Engineering for university students and lecturers aerodynamics researchers aerospace engineers aircraft designers and manufacturers Design of Unmanned Aerial Systems Mohammad H. Sadraey,2020-02-20 Provides a comprehensive introduction to the design and analysis of unmanned aircraft systems with a systems perspective Written for students and engineers who are new to the field of unmanned aerial vehicle design this book teaches the many UAV design techniques being used today and demonstrates how to apply aeronautical science concepts to their design Design of Unmanned Aerial Systems covers the design of UAVs in three sections vehicle design autopilot design and ground systems design in a way that allows readers to fully comprehend the science behind the subject so that they can then demonstrate creativity in the application of these concepts on their own It teaches students and engineers all about UAV classifications design groups design requirements mission planning conceptual design detail design and design procedures It provides them with in depth knowledge of ground stations power systems propulsion systems automatic flight control systems guidance systems navigation systems and launch and recovery systems Students will also learn about payloads manufacturing considerations design challenges flight software microcontroller and design examples In addition the book places major emphasis on the automatic flight control systems and autopilots Provides design steps and procedures for each major component Presents several fully solved step by step examples at component level Includes numerous UAV figures images to emphasize the application of the concepts Describes real stories that stress the significance of safety in UAV design Offers various UAV configurations geometries and weight data to demonstrate the real world applications and examples Covers a variety of design techniques processes such that the designer has freedom and flexibility to satisfy the design requirements in several ways Features many end of chapter problems for readers to practice Design of Unmanned Aerial Systems is an excellent text for courses in the design of unmanned aerial vehicles at both the upper division undergraduate and beginning graduate levels UAS Integration into Civil Airspace Douglas M.

Marshall,2022-03-25 UAS Integration into Civil Airspace Explores current Unmanned Air Systems policies with a view to developing a common airspace access and integration strategy UAS Integration into Civil Airspace Policy Regulations and Strategy examines the current state of Unmanned Aerial Systems UAS airspace access and integration around the world focusing on the efforts that have produced a regulatory response to the demand for access This analysis discusses the proposed architectures for a common strategic and analytical thread that may serve as templates for the entire community as well as for regulators and policymakers who must balance the needs and demands of UAS users with the general public's right to safe skies and privacy An understanding of the market forces and business cases that are fuelling the development of the technology is also covered with a focus on the economics of the industry The book presents a strategy for airspace access and integration that will facilitate humanitarian environmental social and security uses of unmanned aircraft systems on a

global scale Key features Discusses existing and evolving policies and regulations from nations around the world for operating Unmanned Aerial Systems UAS in civil airspace Examines the current status of technological developments such as UTM and U space and explores the technological potential in the years to come Presents a comprehensive airspace integration strategy that balances the many conflicting interests in the UAS world with due regard for safety utility and affordability UAS Integration into Civil Airspace Policy Regulations and Strategy is essential reading for all professionals involved in UAS industry as well as students in mechanical engineering and law

Theoretical and Computational Aerodynamics Tapan K. Sengupta, 2014-10-20 Aerodynamics has seen many developments due to the growth of scientific computing which has caused the design cycle time of aerospace vehicles to be heavily reduced Today computational aerodynamics appears in the preliminary step of a new design relegating costly time consuming wind tunnel testing to the final stages of design Theoretical and Computational Aerodynamics is aimed to be a comprehensive textbook covering classical aerodynamic theories and recent applications made possible by computational aerodynamics It starts with a discussion on lift and drag from an overall dynamical approach and after stating the governing Navier Stokes equation covers potential flows and panel method Low aspect ratio and delta wings including vortex breakdown are also discussed in detail and after introducing boundary layer theory computational aerodynamics is covered for DNS and LES Other topics covered are on flow transition to analyse NLF airfoils bypass transition streamwise and cross flow instability over swept wings viscous transonic flow over airfoils low Reynolds number aerodynamics high lift devices and flow control Key features Blends classical theories of incompressible aerodynamics to panel methods Covers lifting surface theories and low aspect ratio wing and wing body aerodynamics Presents computational aerodynamics from first principles for incompressible and compressible flows Covers unsteady and low Reynolds number aerodynamics Includes an up to date account of DNS of airfoil aerodynamics including flow transition for NLF airfoils Contains chapter problems and illustrative examples Accompanied by a website hosting problems and a solution manual Theoretical and Computational Aerodynamics is an ideal textbook for undergraduate and graduate students and is also aimed to be a useful resource book on aerodynamics for researchers and practitioners in the research labs and the industry

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

Mathematical Modeling and Simulation of Systems (MODS'2020) Serhiy Shkarlet, Anatoliy Morozov, Alexander Palagin, 2020-08-29 This book contains works on mathematical and simulation modeling of processes in various domains ecology and geographic information systems IT industry and project management The development of complex multicomponent systems requires an increase in accuracy efficiency and adequacy while reducing the cost of their creation The studies presented in the book are useful to specialists who are involved in the development of real events models analog management and decision making models production models and software products Scientists can get acquainted with the latest research in various decisions proposed by leading scholars and identify promising directions for solving complex scientific and practical problems The chapters of this book contain the contributions presented on the 15th International Scientific Practical Conference MODS June 29 July 01 2020 Chernihiv Ukraine

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Introduction

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