



Mohammad Sadraey

Aircraft Performance

Analysis

Aircraft Performance Analysis Mohammad Sadraey

Dominic J. Diston



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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 Performance* Mohammad H. Sadraey, 2023-07-14 Aircraft Performance An Engineering Approach Second Edition introduces flight performance analysis techniques of fixed wing air vehicles particularly heavier than aircraft It covers maximum speed absolute ceiling rate of climb range endurance turn performance and takeoff run Enabling the reader to analyze the performance and flight capabilities of an aircraft by utilizing only the aircraft weight data geometry and engine characteristics this book covers the flight performance analysis for both propeller driven and jet aircraft The second edition features new content on vertical takeoff and landing UAV launch UAV recovery use of rocket engine as the main engine range for electric aircraft electric engine endurance for electric aircraft gliding flight pull up and climb turn In addition this book includes end of chapter problems MATLAB code and examples and case studies to enhance and reinforce student understanding This book is intended for senior undergraduate aerospace students taking courses in Aircraft Performance Flight Dynamics and Flight Mechanics Instructors will be able to utilize an updated Solutions Manual and Figure Slides for their course **Aircraft Performance** ,1973 *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

Unmanned Aircraft Design Mohammad Sadraey, 2022-05-31 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

Automatic Flight Control Systems Mohammad Sadraey, 2020-02-14 This book provides readers with a design approach to the automatic flight control systems AFCS The AFCS is the primary on board tool for long flight operations and is the foundation for the airspace modernization initiatives In this text AFCS and autopilot are employed interchangeably It presents fundamentals of AFCS autopilot including primary subsystems dynamic modeling AFCS categories functions modes servos actuators measurement devices requirements functional block diagrams design techniques and control laws The book consists of six chapters The first two chapters cover the fundamentals of AFCS and closed loop control systems in manned and unmanned aircraft The last four chapters present features of Attitude control systems Hold functions Flight path control systems Navigation functions Stability augmentation systems and Command augmentation systems respectively

Introduction to Aeroelasticity Harijono Djojodihardjo, 2023-09-03 This textbook is intended as a core text for courses on aeroelasticity or aero elasto mechanics for senior undergraduate graduate programs in aerospace and mechanical engineering The book focuses on the basic understanding of the concepts required in learning about aeroelasticity from

observation reasoning and understanding fundamental physical principles Fundamental and simple mathematics will be introduced to describe the features of aeroelastic problems and to devise simple concurrent physical and mathematical modeling It will be accompanied by the introduction and understandings of the mechanisms that create the interactions that generate the aeroelastic phenomena considered The students will also be led to the relation between observed phenomena assumptions that may have to be adopted to arrive at physical and mathematical modelling interpreting and verifying the results and the accompanied limitations uncertainties and inaccuracies The students will also be introduced to combine engineering problem solving attitude and determination with simple mechanics problem solving skills that coexist harmoniously with a useful mechanical intuition

Computational Modelling and Simulation of Aircraft and the Environment, Volume 2 Dominic J. Diston, 2024-02-06 Computational Modelling and Simulation of Aircraft and the Environment An in depth discussion of aircraft dynamics modelling and simulation This book provides a comprehensive guide to modelling and simulation from basic physical and mathematical principles giving the reader sufficient information to be able to build computational models of aircraft for the purposes of simulation and evaluation Highly relevant to practitioners it takes into account the multi disciplinary nature of aerospace products and the integrated nature of the models needed in order to represent them Volume 1 Platform Kinematics and Synthetic Environment focused on the modelling of a synthetic environment in which aircraft operate and its spatial relationship with vehicles that are situated and moving within it This volume focuses on the modelling of aircraft and the interpretation of their flight dynamics Key features Includes chapters on equations of motion fixed wing aerodynamics longitudinal flight and gas turbines as well as an opening chapter that presents an overview of flight modelling and a concluding chapter that presents a number of additional topics such as aircraft structures and embedded systems Serves as both a student text and practitioner reference Follows on from previous Aerospace Series titles offering a complementary view of vehicles and systems from the perspectives of mathematics physics and simulation This book offers a comprehensive guide for senior graduate and postgraduate students of aerospace engineering as well as professional engineers involved in the modelling and simulation of aircraft

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

Unsteady Aerodynamics Grigorios Dimitriadis, 2023-11-29 *Unsteady Aerodynamics* A comprehensive overview of unsteady aerodynamics and its applications The study of unsteady aerodynamics goes back a century and has only become more significant as aircraft become increasingly sophisticated fly faster and their structures are lighter and more flexible Progress in the understanding of flow physics computing power and techniques and modelling technologies has led to corresponding progress in unsteady aerodynamics with a wide range of methods currently used to predict the performance of engineering structures under unsteady conditions *Unsteady Aerodynamics* offers a comprehensive and systematic overview of the application of potential and vortex methods to the subject Beginning with an introduction to the fundamentals of unsteady flow it then discusses the modelling of attached and separated incompressible and compressible flows around two dimensional and three dimensional bodies The result is an essential resource for design and simulation in aerospace engineering *Unsteady Aerodynamics* readers will also find MATLAB examples and exercises throughout with codes and solutions on an accompanying website Detailed discussion of most classes of unsteady phenomena including flapping flight transonic flow dynamic stall flow around bluff bodies and more Validation of theoretical and numerical predictions using comparisons to experimental data from the literature *Unsteady Aerodynamics* is ideal for researchers engineers and advanced students in aerospace engineering

Scramjet Propulsion Dora Musielak, 2022-11-16 *Scramjet Propulsion* Explore the cutting edge of HAP technologies with this comprehensive resource from an international leader in her field *Scramjet Propulsion* A Practical Introduction delivers a comprehensive treatment of hypersonic air breathing propulsion and its applications The book covers the most up to date hypersonic technologies like endothermic fuels fuel injection and flameholding systems high temperature materials and TPS and offers technological overviews of hypersonic flight platforms like the X 43A X 51A and HiFIRE It is organized around easy to understand explanations of technical challenges and provides extensive references for the information contained within The highly accomplished author provides readers with a fulsome description of the theoretical underpinnings of hypersonic technologies as well as critical design and

technology issues affecting hypersonic air breathing propulsion technologies The book's combination of introductory theory and advanced instruction about individual hypersonic engine components is ideal for students and practitioners in fields as diverse as hypersonic vehicle and propulsion development for missile defense technologies launch aerospaceplanes and civilian transports Over 250 illustrations and tables round out the material Readers will also learn from A thorough introduction to hypersonic flight hypersonic vehicle concepts and a review of fundamental principles in hypersonic air breathing propulsion Explorations of the aerothermodynamics of scramjet engines and the design of scramjet components as well as hypersonic air breathing propulsion combustors and fuels Analyses of dual mode combustion phenomena materials structures and thermal management in hypersonic vehicles and combined cycle propulsion An examination of CFD analysis ground and flight testing and simulation Perfect for researchers and graduate students in aerospace engineering Scramjet Propulsion A Practical Introduction is also an indispensable addition to the libraries of engineers working on hypersonic vehicle development seeking a state of the art resource in one of the most potentially disruptive areas of aerospace research today

Flight Simulation Software David Allerton, 2022-12-19 Flight Simulation Software Explains the many aspects of flight simulator design including open source tools for developing an engineering flight simulator Flight simulation is an indispensable technology for civil and military aviation and the aerospace industry Real time simulation tools span across all aspects of aircraft development from aerodynamics and flight dynamics to avionics and image generation systems Knowledge of flight simulation software is vital for aerospace engineering professionals educators and students Flight Simulation Software contains comprehensive and up to date coverage of the computer tools required to design and develop a flight simulator Written by a noted expert with decades of experience developing flight simulators in academia this highly practical resource enables readers to develop their own simulations with readily available open source software rather than relying on costly commercial simulation packages The book features working software taken from operational flight simulators and provides step by step guidance on software design computer graphics parallel processing aircraft equations of motion navigation and flight control systems and more Explains both fundamental theory and real world practice of simulation in engineering design Covers a wide range of topics including coding standards software validation user interface design and sensor modelling Describes techniques used in modern flight simulation including distributed architectures and the use of GPUs for real time graphics rendering Addresses unique aspects of flight simulation such as designing flight control systems visual systems and simulator instructor stations Includes a companion website with downloadable open source software and additional resources Flight Simulation Software is a must have guide for all developers and users of simulation tools as well as the ideal textbook for relevant undergraduate and postgraduate courses in computer science aeronautical engineering electrical engineering and mechanical engineering programs

[Introduction to Aerospace Engineering with a Flight Test Perspective](#) Stephen Corda, 2026-02-24 Comprehensive textbook integrating the fundamentals of flight testing with

introductory concepts in aerospace engineering Introduction to Aerospace Engineering with a Flight Test Perspective provides a solid foundation in the fundamentals of aerospace engineering while illuminating many aspects of real world flight covering topics such as aerodynamics propulsion performance and stability and control End of chapter problems are included along with a solutions manual for instructors The Second Edition includes two new chapters one providing a timely introduction to hypersonics and the other introducing the fundamentals of spaceflight Introduction to Aerospace Engineering with a Flight Test Perspective discusses sample topics including Historical perspectives of the first flights of airplanes rotorcraft and spacecraft Introductory concepts of airplanes rotorcraft unmanned aerial vehicles and lighter than air vehicles Placement of the reader in the aircraft cockpit to fly and learn the basics of flight test Fundamentals of subsonic transonic supersonic and hypersonic flight with explanations of the theories of lift and the generation of drag Types of non airbreathing rocket propulsion including liquid propellant rocket engines and solid rocket motors as well as air breathing propulsion including propeller driven and jet engines Concepts of aircraft performance in cruising climbing gliding and turning flight Longitudinal and lateral directional stability and control An introduction to hypersonic vehicles aero thermodynamics and propulsion Orbital mechanics covering Kepler s laws the two body problem types of trajectories and orbits and atmospheric entry Introduction to Aerospace Engineering with a Flight Test Perspective is an excellent accompaniment to any introductory course in aerospace engineering taught at civilian universities military academies and test pilot schools The text may also be used in more advanced courses in flight testing aerodynamics performance and design

Hypersonic Slender Body Aerodynamics Ethirajan Rathakrishnan, 2025-03-31 One of a kind textbook on theoretical and application aspects of hypersonic slender body aerodynamics with many didactic features included throughout Developed using class tested course material Hypersonic Slender Body Aerodynamics presents the theoretical and application aspects of the subject in a precise concise and student friendly manner The text includes a large number of worked examples figures diagrams and tables slides for lecturers and a list of exercise problems with answers at the end of each chapter This book covers the subject material beginning from the definition of the slender body geometry through to the study of flow field around the body and the calculation of the aerodynamic and thermal loads acting on the body at speeds ranging from low to high i e from incompressible to hypersonic speeds The Mach number independence principle and approximate theories for caret wings are also covered among many other key topics This book is unique in its comprehensive coverage of the topic enabling readers to find information in one place instead of scattered throughout proprietary wind tunnel test data flight test data government technical reports scientific literature sources and numerical methods Some of the concepts explored in Hypersonic Slender Body Aerodynamics include Wings of supersonic aircraft covering sharp leading edges and ground and viscous effects and pressure distribution on surfaces covering transverse and longitudinal flow Hypersonic aerodynamics covering atmospheric properties hypersonic flow characteristics governing equations and flow past a semi wedge Application of slender body

theory covering leading edge heat transfer sublimation aerodynamic effects nose bluntness blast wave theory and thin shock layers Axisymmetric slender bodies covering potential flow solutions and pressure distribution and drag of slender bodies covering shape factor and blunt after body corrections Skillfully written with a clear and engaging writing style Hypersonic Slender Body Aerodynamics is an essential learning resource on the subject for undergraduate and graduate students of aerospace engineering and practicing engineers working in aerospace research labs and industries It is a perfect textbook for courses on slender body aerodynamics

Unmanned Aircraft Design Mohammad H. Sadraey, 2024-09-07 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 communications system 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 67 countries are developing and employing UAVs for both military and civil 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 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 The second edition is extensively revised Some of the new terminologies concepts and specific unmanned aircraft systems are introduced The revisions make the book clearer and easier to understand and will add number of new subjects in areas that have become more prominent in the unmanned aviation world

Aircraft Performance Analysis Mohammad Sadraey, 2009 Dissertation Abstracts International, 2006 **Aircraft Performance** Maido Saarlus, 2006-12-05 Aircraft PERFORMANCE STRAIGHTFORWARD METHODS TO DESIGN AND OPERATE AIRCRAFT TO MEET PERFORMANCE SPECIFICATIONS Aircraft Performance sets forth a group of tested and proven methods needed to determine the performance of an aircraft The central theme of this book is the energy method which enhances understanding of the standard methods and provides accessibility to advanced topics As a result readers gain a thorough understanding of the performance issues involved in operating an aircraft in an efficient and economic manner While covering all the standard topics level and climbing flight range and endurance take off and landing and maneuvering flight the book focuses on the

energy methods applied to path performance analysis Throughout the text numerous examples from both the commercial and military sectors show readers how the concepts and calculations are applied to real life situations Problems ranging from basic to complex test the readers understanding and provide an opportunity for essential practice To help focus the readers attention on core issues this text assumes that aerodynamics and propulsion are known inputs Special appendices are provided to present some aerodynamic and propulsive equations and data In general topics are separated into horizontal and vertical plane approaches Following an introduction and overview basic energy concepts are employed to obtain a fundamental performance equation This text with its extensive use of examples and problem sets is ideal for upper level undergraduate and graduate students in engineering It also serves as a reference for design engineers in both military and industrial sectors who want a set of clear and reliable methods to calculate aircraft performance *Aircraft Performance and Sizing, Volume I* Timothy Takahashi, 2017-12-15 This book is a concise practical treatise for the student or experienced professional aircraft designer This volume comprises key fundamental subjects for aerodynamic performance analysis the basics of flight mechanics bridging both engineering and piloting perspectives propulsion system performance attributes practical drag prediction methods aircraft up and away flight performance and aircraft mission performance This book may serve as a textbook for an undergraduate aircraft performance course or as a reference for the classically trained practicing engineer *Flight Performance of Aircraft* Shiva Kumar Ojha, 1995 This text describes the basic forces which dictate and decide the performance of an aircraft It is aimed at pilots and flight test engineers seeking answers to questions of flight mechanics Referring to real life situations performance analysis is presented for most phases of flying including takeoff climb cruise turn descent and landing To improve confidence in dealing with these situations a list of problems is provided at the end of each chapter to encourage trouble shooting and theory comprehension Charts figures and references reinforce and complement the text throughout

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