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> Fundamentals of Aeroacoustics with Applications to Aeropropulsion Systems

Xiaofeng Sun Xiaoyu Wang



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Jinjun Wang,Lihao Feng

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Wake Vortex Control Feng Bao, Juergen Kompenhans, 2015-07-01 Bringing together for the first time in the English language a wealth of Eastern and Western research and practical developments Wake Vortex Control addresses the challenging issue of wake turbulence and its management Covering relevant theoretical background past work and modeling techniques alongside regulatory frameworks and operational issues the book takes an interdisciplinary approach and highlights essential research that has moved the field forward Critically it considers in detail the design implications of wake vortex promoting an approach that sees low wake vortex wing development taken into account in the early stages of aircraft design Featuring examples of current control techniques and practical design advice Wake Vortex Control will help researchers engineers and designers to move closer towards aircraft optimization for maximum performance and minimum wake hazard Brings together frontline research on wake vortex effects from leading groups across the world Focuses on methods for control and management in addition to the theory and modeling information covered by other titles Features practical advice and examples of wake vortex minimization efforts undertaken in the early stage of large aircraft design

Commercial Aircraft Hydraulic Systems Shaoping Wang, Mileta Tomovic, Hong Liu, 2015-10-09 Commercial Aircraft Hydraulic Systems Shanghai Jiao Tong University Press Aerospace Series focuses on the operational principles and design technology of aircraft hydraulic systems including the hydraulic power supply and actuation system and describing new types of structures and components such as the 2H 2E structure design method and the use of electro hydrostatic actuators EHAs Based on the commercial aircraft hydraulic system this is the first textbook that describes the whole lifecycle of integrated design analysis and assessment methods and technologies enabling readers to tackle challenging high pressure and high power hydraulic system problems in university research and industrial contexts Commercial Aircraft Hydraulic Systems is the latest in a series published by the Shanghai Jiao Tong University Press Aerospace Series that covers the latest advances in research and development in aerospace Its scope includes theoretical studies design methods and real world implementations and applications. The readership for the series is broad reflecting the wide range of aerospace interest and application Titles within the series include Reliability Analysis of Dynamic Systems Wake Vortex Control Aeroacoustics Fundamentals and Applications in Aeropropulsion Systems Computational Intelligence in Aerospace Engineering and Unsteady Flow and Aeroelasticity in Turbomachinery Presents the first book to describe the interface between the hydraulic system and the flight control system in commercial aircraft Focuses on the operational principles and design technology of aircraft hydraulic systems including the hydraulic power supply and actuation system Includes the most advanced methods and technologies of hydraulic systems Describes the interaction between hydraulic systems and other disciplines

**Reliability Based Aircraft Maintenance Optimization and Applications** He Ren,Xi Chen,Yong Chen,2017-03-19 Reliability Based Aircraft Maintenance Optimization and Applications presents flexible and cost effective maintenance

schedules for aircraft structures particular in composite airframes By applying an intelligent rating system and the back propagation network BPN method and FTA technique a new approach was created to assist users in determining inspection intervals for new aircraft structures especially in composite structures This book also discusses the influence of Structure Health Monitoring SHM on scheduled maintenance An integrated logic diagram establishes how to incorporate SHM into the current MSG 3 structural analysis that is based on four maintenance scenarios with gradual increasing maturity levels of SHM The inspection intervals and the repair thresholds are adjusted according to different combinations of SHM tasks and scheduled maintenance This book provides a practical means for aircraft manufacturers and operators to consider the feasibility of SHM by examining labor work reduction structural reliability variation and maintenance cost savings Presents the first resource available on airframe maintenance optimization Includes the most advanced methods and technologies of maintenance engineering analysis including first application of composite structure maintenance engineering analysis integrated with SHM Provides the latest research results of composite structure maintenance and health monitoring systems

Fundamentals of Aeroacoustics with Applications to Aeropropulsion Systems Xiaofeng Sun, Xiaoyu Wang, 2020-10-14 Fundamentals of Aeroacoustics with Applications to Aeropropulsion Systems from the Shanghai Jiao Tong University Press Aerospace series is the go to reference on the topic providing a modern take on the fundamental theory and applications relating to prediction and control of all major noise sources in aeropropulsion systems. This important reference compiles the latest knowledge and research advances considering both the physics of aerodynamic noise generation in aero engines and related numerical prediction techniques Additionally it introduces new vortex sound interaction models a transfer element method and a combustion instability model developed by the authors Focusing on propulsion systems from inlet to exit including combustion noise this new resource will aid graduate students researchers and R D engineers in solving the aircraft noise problems that currently challenge the industry Updates the knowledge base on the sound source generated by aeropropulsion systems from inlet to exit including combustion noise Covers new aerodynamic noise control technology aimed at the low noise design of next generation aero engines including topics such as aerodynamic noise and aero engine noise control Includes new cutting edge models and methods developed by an author team led by the editor in chief of the Chinese Journal of Aeronautics and Astronautics Considers both the physics of aerodynamic noise generation in aero engines and related numerical prediction techniques Flow Control Techniques and Applications Jinjun Wang, Lihao Feng, 2018-12-13 Providing comprehensive coverage this is the first book to systematically introduce different flow control techniques With a dedicated chapter for each technique all of the most important typical and up to date methods are discussed including the vortex generator biological techniques the jet and synthetic jet the plasma actuator and closed loop control Understand their key characteristics and control mechanisms and learn about their applications in different fields such as aviation and aerospace mechanical engineering and building construction The necessary background on flow control is provided including the history of the discipline and the definition classification and development of each technique making this essential reading for graduate students researchers and engineers working in the field Reliability Analysis of Dynamic Systems Bin Wu, 2013-06-19 Featuring aerospace examples and applications Reliability Analysis of Dynamic Systems presents the very latest probabilistic techniques for accurate and efficient dynamic system reliability analysis While other books cover more broadly the reliability techniques and challenges related to large systems Dr Bin Wu presents a focused discussion of new methods particularly relevant to the reliability analysis of large aerospace systems under harmonic loads in the low frequency range Developed and written to help you respond to challenges such as non linearity of the failure surface intensive computational costs and complexity in your dynamic system Reliability Analysis of Dynamic Systems is a specific detailed and application focused reference for engineers researchers and graduate students looking for the latest modeling solutions The Shanghai Jiao Tong University Press Aerospace Series publishes titles that cover the latest advances in research and development in aerospace Its scope includes theoretical studies design methods and real world implementations and applications. 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Foster, 1999

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