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Flight Mechanics Of High Performance Aircraft

Rama K. Yedavalli



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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

Flow Control Techniques and Applications Jinjun Wang, Lihao Feng, 2019 Master the theory applications and control mechanisms of flow control techniques

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Fundamentals of Jet Propulsion with Power Generation Applications Ronald D. Flack,2023-08-10 A revised second edition of this introductory text on air breathing jet propulsion emphasizing jet engines and gas turbines

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An Introduction to Flapping Wing Aerodynamics Wei Shyy, Hikaru Aono, Chang-kwon Kang, Hao Liu, 2013-08-19 This is an ideal book for graduate students and researchers interested in the aerodynamics structural dynamics and flight dynamics of small birds bats and insects as well as of micro air vehicles MAVs which present some of the richest problems intersecting science and engineering The agility and spectacular flight performance of natural flyers thanks to their flexible deformable wing structures as well as to outstanding wing tail and body coordination is particularly significant To design and build MAVs with performance comparable to natural flyers it is essential that natural flyers combined flexible structural dynamics and aerodynamics are adequately understood The primary focus of this book is to address the recent developments in flapping wing aerodynamics This book extends the work presented in Aerodynamics of Low Reynolds Number Flyers Shyy et al 2008

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