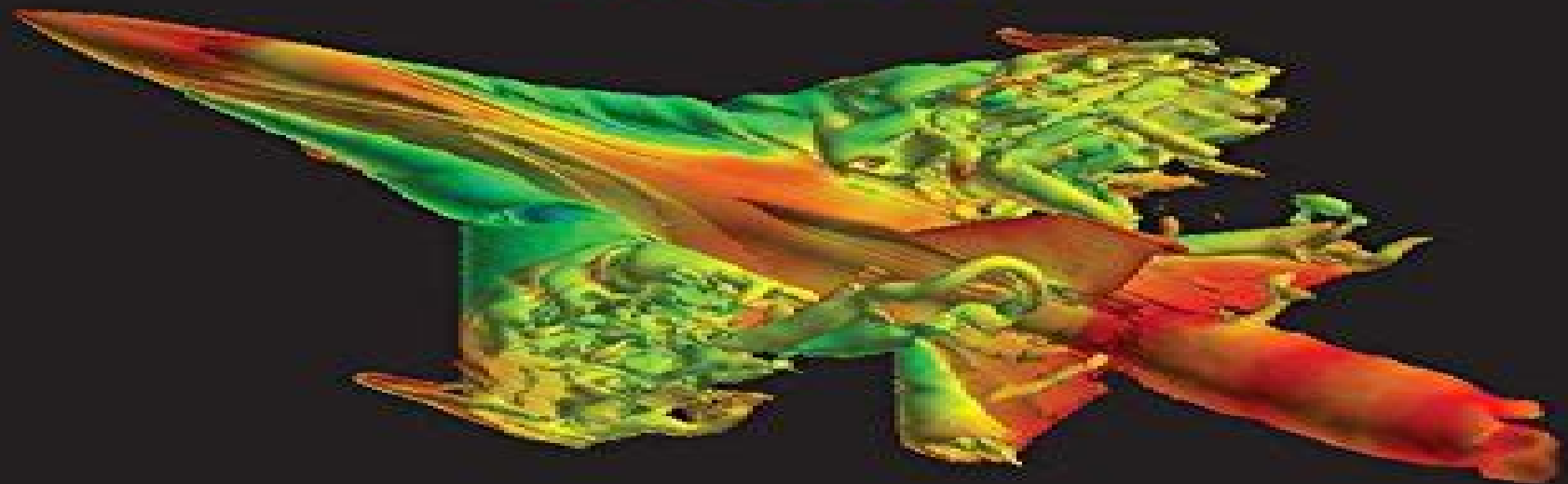


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aircraft design methods based on sampling model updating and system identification should be considered **Subject**
Guide to Books in Print ,1991 *The Aeronautical Journal* ,2001 *Applied Mechanics Reviews* ,1992

Computational Aerodynamics Antony Jameson,2022-09-01 Computational aerodynamics is a relatively new field in engineering that investigates aircraft flow fields via the simulation of fluid motion and sophisticated numerical algorithms This book provides an excellent reference to the subject for a wide audience from graduate students to experienced researchers and professionals in the aerospace engineering field Opening with the essential elements of computational aerodynamics the relevant mathematical methods of fluid flow and numerical methods for partial differential equations are presented Stability theory and shock capturing schemes and viscous flow and time integration methods are then comprehensively outlined The final chapters treat more advanced material including energy stability for nonlinear problems and higher order methods for unstructured and structured meshes Presenting over 150 illustrations including representative calculations on unstructured meshes in color This book is a rich source of information that will be of interest and importance in this pioneering field **Machine Learning Control - Taming Nonlinear Dynamics and Turbulence** Thomas Duriez, Steven L. Brunton, Bernd R. Noack, 2016-11-02 This is the first textbook on a generally applicable control strategy for turbulence and other complex nonlinear systems The approach of the book employs powerful methods of machine learning for optimal nonlinear control laws This machine learning control MLC is motivated and detailed in Chapters 1 and 2 In Chapter 3 methods of linear control theory are reviewed In Chapter 4 MLC is shown to reproduce known optimal control laws for linear dynamics LQR LQG In Chapter 5 MLC detects and exploits a strongly nonlinear actuation mechanism of a low dimensional dynamical system when linear control methods are shown to fail Experimental control demonstrations from a laminar shear layer to turbulent boundary layers are reviewed in Chapter 6 followed by general good practices for experiments in Chapter 7 The book concludes with an outlook on the vast future applications of MLC in Chapter 8 Matlab codes are provided for easy reproducibility of the presented results The book includes interviews with leading researchers in turbulence control S Bagheri B Batten M Glauser D Williams and machine learning M Schoenauer for a broader perspective All chapters have exercises and supplemental videos will be available through YouTube

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