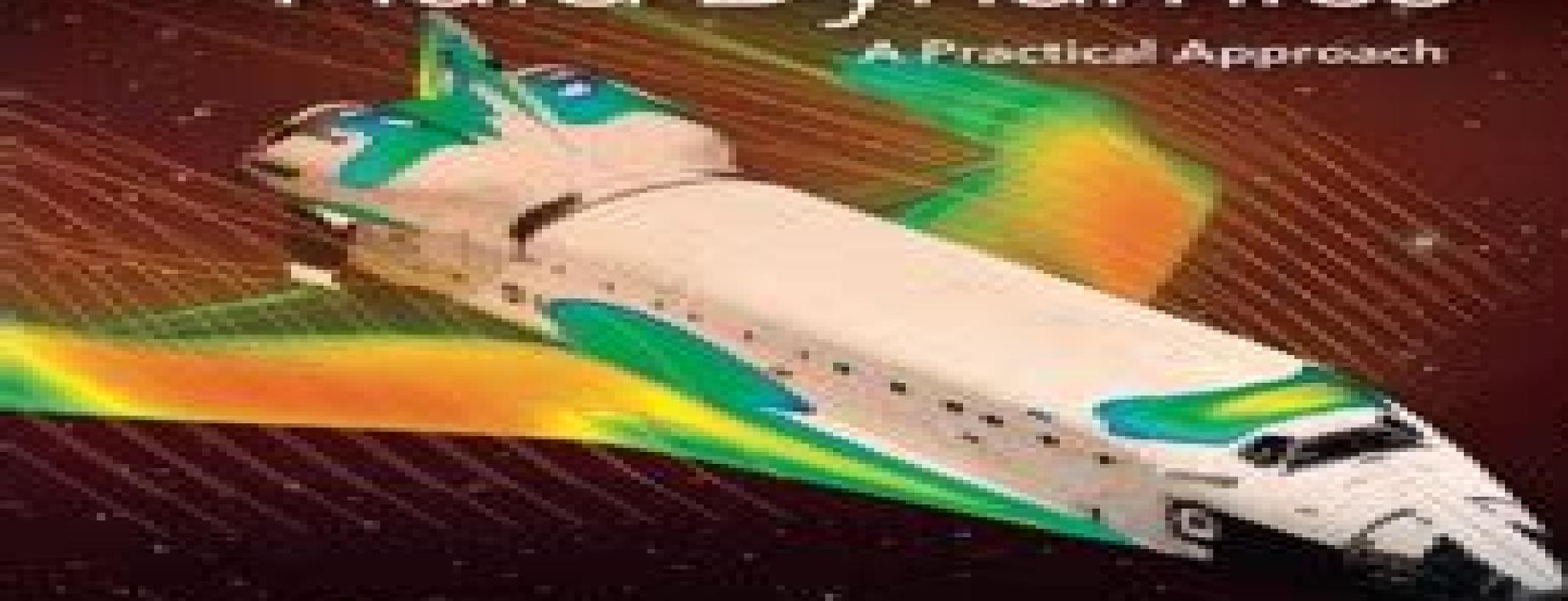


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SECOND EDITION

A Practical Approach



Jiyuan Tu
Guan-Yeh
Chaoqun Liu



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methods for good practice Designers engineers and researchers working in this field of fluid mechanics will find this book essential reading both for new ideas and applications as well as a valuable source of reference CONTENTS INCLUDE The issue of numerical accuracy in computational fluid dynamics Detection of multiple solutions using a mid cell back substitution technique applied to computational fluid dynamics A comparison of a conventional RANS and a lattice gas dynamics simulation a case study in high speed rail aerodynamics Mesh generation The Ricardo Philosophy The validation of rapid CFD modelling for turbomachinery Built environment simulations using CFD Using CFD in the design of electric motors and generators CFD computation of air oil separation in an engine breather Cavitation in a pressure activated ball valve **41st AIAA Aerospace Sciences Meeting & Exhibit** ,2003 *Fluid Dynamics Problems of Vehicles Operating Near Or in the Air-sea Interface* Symposium on Fluid Dynamics Problems of Vehicles Operating Near or in the Air-Sea Interface,1999 AIAA Aerospace Sciences Meeting and Exhibit, 42nd ,2004 **AIAA Journal** American Institute of Aeronautics and Astronautics,2008 *Aeronautical Engineering* ,1991 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA

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