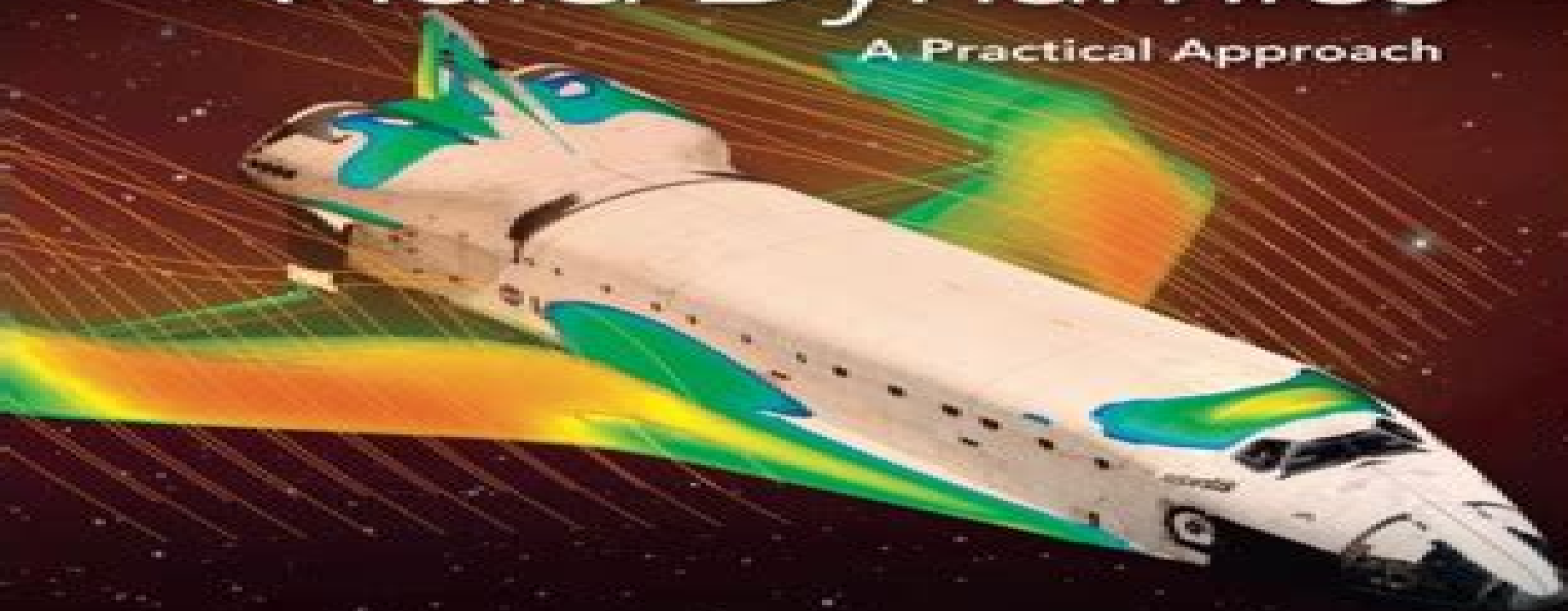


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SECOND EDITION

A Practical Approach



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Guan Yeoh
Chaoqun Liu



Computational Fluid Dynamics Second Edition A Practical Approach

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Dynamics Nathan M. Walker, 2015-08-13 Thought provoking and accessible in approach this updated and expanded second edition of the *Computational Fluid Dynamics A Practical Approach* provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject's core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for advanced graduate level students We hope you find this book useful in shaping your future career Feel free to send us your enquiries related to our publications to info@risepress.pw Rise Press

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Modeling of Combustion Systems Joseph Colannino, 2025-02-20 Modeling of Combustion Systems provides accessible instruction for the operator or engineer to model combustion responses such as NO_x CO flame dimensions or heat flux as a function of input factors such as excess oxygen firing rate furnace temperature and fuel type Retaining the emphasis on practical semiempirical modeling of boilers process heaters and reactors such as ethylene cracking units and ammonia and hydrogen reformers the second edition expands the approach to include combustion air fans and representation of complex models direct numerical simulations or computational fluid dynamics in concise forms It also shows how to design experiments to collect the most data with the fewest experiments and model real unit behavior with engineering accuracy This book is intended for technicians operators and engineers working with fired equipment such as boilers reactors and process heaters It includes 65 fully worked examples in MS Excel with detailed instructions All example spreadsheets are available for download from the publisher s website

INTRODUCTION TO NUMERICAL METHODS IN CHEMICAL ENGINEERING, SECOND EDITION AHUJA, PRADEEP, 2019-08-01 This book is an exhaustive presentation of the applications of numerical methods in chemical engineering Intended primarily as a textbook for B E B Tech and M Tech students of chemical engineering the book will also be useful for research and development process professionals in the fields of chemical biochemical mechanical and biomedical engineering The book now in its second edition comprises three parts Part I on General Chemical Engineering is same as given in the first edition of the book It explains solving linear and non linear algebraic equations chemical engineering thermodynamics problems initial value problems boundary value problems and topics related to chemical reaction dispersion and diffusion as well as steady and transient heat conduction Whereas Part II and Part III comprising two chapters and six chapters respectively are newly introduced in the present edition Besides three appendices covering computer programs have been included For practice the book provides students with numerous worked out examples and chapter end exercises including their answers NEW TO THE SECOND EDITION

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