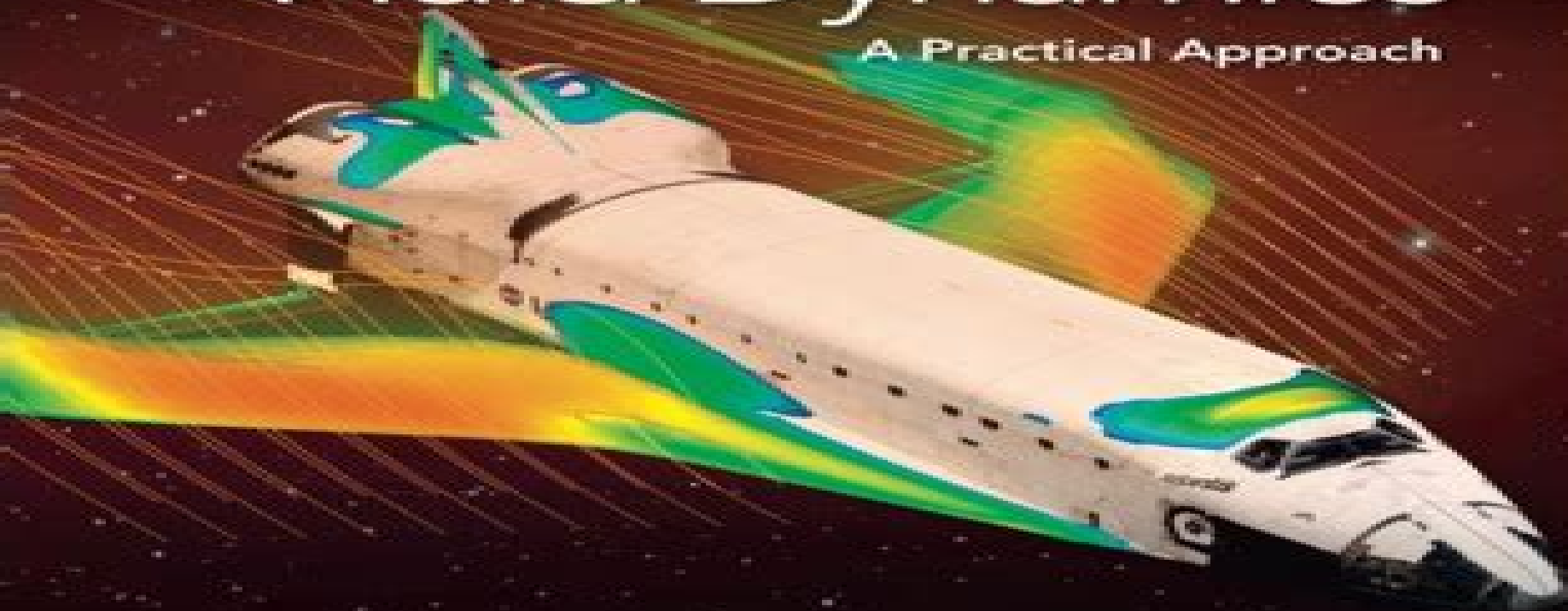


Computational Fluid Dynamics

SECOND EDITION

A Practical Approach



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Guan Yeoh
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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

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