

Numerical Methods for the Solution of Transport Problems

W.E. Schiesser and C.A. Silebi

Volker Hessel, Albert Renken, Jaap C. Schouten, Jun-Ichi Yoshida

Computational Transport Phenomena W. E. Schiesser, C. A. Silebi, 1997-08-13 A clear user oriented introduction to the subject of computational transport phenomena first published in 1997 Micro Process Engineering, 3 Volume Set Volker Hessel, Albert Renken, Jaap C. Schouten, Jun-Ichi Yoshida, 2009-03-23 This three volume handbook provides an overview of the key aspects of micro process engineering Volume 1 covers the fundamentals operations and catalysts volume 2 examines devices reactions and applications with volume 3 rounding off the trilogy with system process and plant engineering Fluid dynamics mixing heat mass transfer purification and separation microstructured devices and microstructured reactors are explained in the first volume Volume 2 segments microreactor design fabrication and assembly bulk and fine chemistry polymerisation fuel processing and functional materials into understandable parts The final volume of the handbook addresses microreactor systems design and scale up sensing analysis and control chemical process engineering economic and eco efficiency analyses as well as microreactor plant case studies in one book Together this 3 volume handbook explains the science behind micro process engineering to the scale up and their real life industrial Computer Modelling of Heat and Fluid Flow in Materials Processing C.P. Hong, 2019-04-23 The applications understanding and control of transport phenomena in materials processing play an important role in the improvement of conventional processes and in the development of new techniques Computer modeling of these phenomena can be used effectively for this purpose Although there are several books in the literature covering the analysis of heat tra

Computational Methods in Chemical Engineering with Maple Ralph E. White, Venkat R. Subramanian, 2010-02-06 This book presents Maple solutions to a wide range of problems relevant to chemical engineers and others Many of these solutions use Maple s symbolic capability to help bridge the gap between analytical and numerical solutions. The readers are strongly encouraged to refer to the references included in the book for a better understanding of the physics involved and for the mathematical analysis. This book was written for a senior undergraduate or a first year graduate student course in chemical engineering Most of the examples in this book were done in Maple 10. However the codes should run in the most recent version of Maple We strongly encourage the readers to use the classic worksheet mws option in Maple as we believe it is more user friendly and robust. In chapter one you will find an introduction to Maple which includes simple basics as a convenience for the reader such as plotting solving linear and nonlinear equations. Laplace transformations matrix operations do loop and while loop Chapter two presents linear ordinary differential equations in section 1 to include homogeneous and nonhomogeneous ODEs solving systems of ODEs using the matrix exponential and Laplace transform method. In section two of chapter two nonlinear ordinary differential equations are presented and include simultaneous series reactions solving nonlinear ODEs with Maple s dsolve command stop conditions differential algebraic equations and steady state solutions.

Teaching and Learning of Fluid Mechanics.

This book contains research on the pedagogical aspects of fluid mechanics and includes case studies lesson plans articles on historical aspects of fluid mechanics and novel and interesting experiments and theoretical calculations that convey complex ideas in creative ways The current volume showcases the teaching practices of fluid dynamicists from different disciplines ranging from mathematics physics mechanical engineering and environmental engineering to chemical engineering The suitability of these articles ranges from early undergraduate to graduate level courses and can be read by faculty and students alike We hope this collection will encourage cross disciplinary pedagogical practices and give students a glimpse of Petroleum Refining Processes James G. Speight, Baki the wide range of applications of fluid dynamics Ozum, 2001-10-31 This work highlights contemporary approaches to resource utilization and provides comprehensive coverage of technological advances in residuum conversion It illustrates state of the art engineering methods for the refinement of heavy oils bitumen and other high sulphur feedstocks Process Analysis, Design, and Intensification in Microfluidics and Chemical Engineering Santana, Harrson Silva, Lameu da Silva Jr, João, Taranto, Osvaldir Pereira, 2019-01-18 Microfluidics represent great potential for chemical processes design development optimization and chemical engineering bolsters the project design of industrial processes often found in large chemical plants Together microfluidics and chemical engineering can lead to a more complete and comprehensive process Process Analysis Design and Intensification in Microfluidics and Chemical Engineering provides emerging research exploring the theoretical and practical aspects of microfluidics and its application in chemical engineering with the intention of building pathways for new processes and product developments in industrial areas Featuring coverage on a broad range of topics such as design techniques hydrodynamics and numerical modelling this book is ideally designed for engineers chemists microfluidics and chemical engineering companies academicians researchers and students Mathematical Methods in Chemical and Biological **Engineering** Binay Kanti Dutta, 2016-11-03 Mathematical Methods in Chemical and Biological Engineering describes basic to moderately advanced mathematical techniques useful for shaping the model based analysis of chemical and biological engineering systems Covering an ideal balance of basic mathematical principles and applications to physico chemical problems this book presents examples drawn from recent scientific and technical literature on chemical engineering biological and biomedical engineering food processing and a variety of diffusional problems to demonstrate the real world value of the mathematical methods Emphasis is placed on the background and physical understanding of the problems to prepare students for future challenging and innovative applications **Computational Methods for Fluid Dynamics** Joel H. Ferziger, Milovan Peric, 2012-12-06 Computational fluid dynamics commonly known under the acronym CFD is undergoing significant expansion in terms of both the number of courses offered at universities and the number of researchers active in the field There are a number of software packages available that solve fluid flow problems the market is not quite as large as the one for structural mechanics codes in which the use of finite element methods is well established The lag can be

explained by the fact that CFD problems are in general more difficult to solve However CFD codes are slowly being accepted as design tools by industrial users At present users of CFD need to be fairly knowledgeable and this requires education of both students and working engineers The present book is an attempt to fill this need It is our belief that to work in CFD one needs a solid background in fluid mechanics and numerical analysis significant errors have been made by peo ple lacking knowledge in one or the other We therefore encourage the reader to obtain a working knowledge of these subjects before entering into a study of the material in this book Because different people view numerical meth ods differently and to make this work more self contained we have included two chapters on basic numerical methods in this book The book is based on material offered by the authors in courses at Stanford University the Uni versity of Erlangen Niirnberg and the University of Hamburg Previews of Heat and Mass Transfer ,1997

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