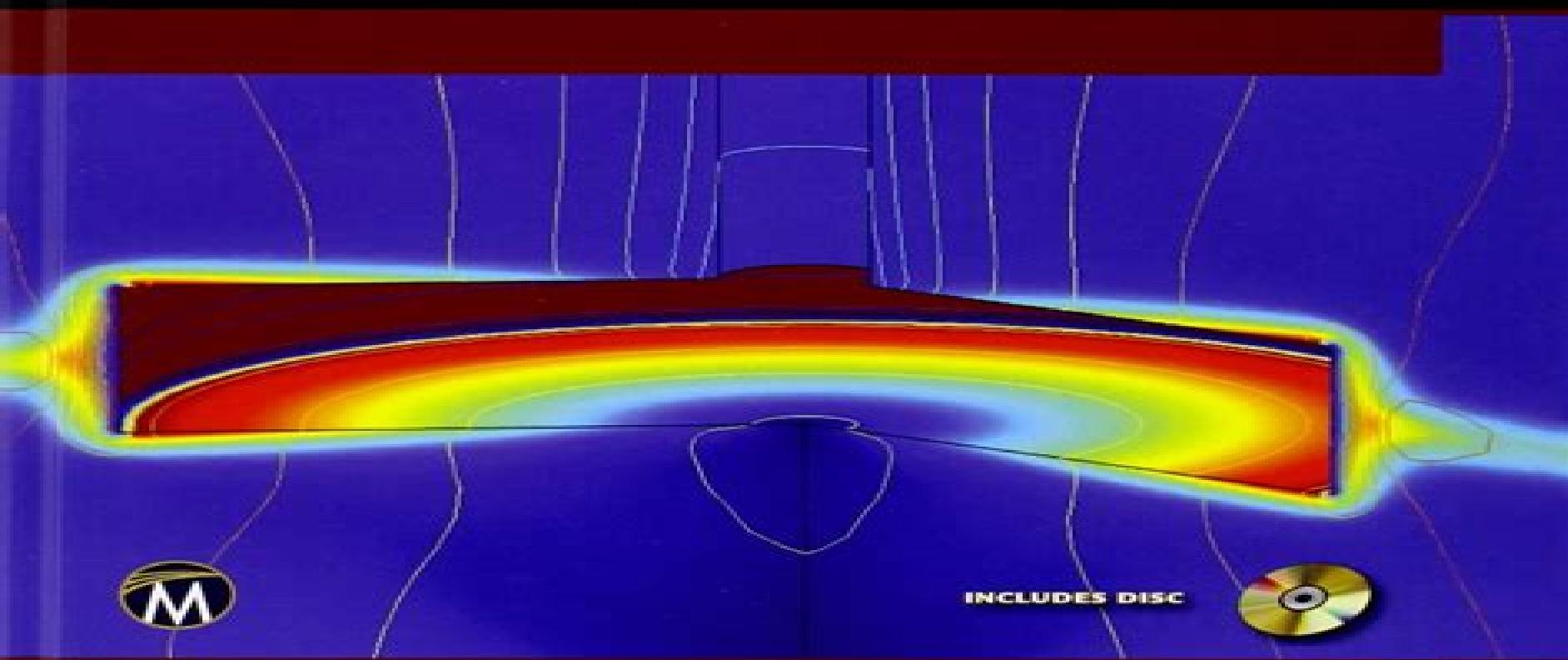


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Modelling in Science and Engineering Marcus Inácio, Hugo Pereira, Isabel Paiva, António Pereira, 2019-06-21 This book gives the reader a brief introduction to the COMSOL Multiphysics software tool Building COMSOL Multiphysics models in 2D or 3D will help students to consolidate their skills by applying basic theory to the real modelling of tasks that in the recent past would require months of programming and dedicated projects to solve a single problem The examples illustrated in this book include modelling of heat transfer the migration of a radioactive species in a channel using the Navier Stokes equations and a chemical heterogenous reactor These are problems that tend to be rather abstract until such time as a student applies these fundamental equations in practice Advanced coupling between phenomena in fields such as electromagnetics with others such as heat transfer and computational fluid flow is made easy in COMSOL Multiphysics A short introduction to the basics concepts and techniques will allow the reader to progress rapidly and start developing his her own models In the second part of this book some of the models developed in the first part are used to create model applications that can even run on a mobile phone About the authors António de Campos Pereira PhD in Physics is an author and consultant He is a retired researcher from the Dept of Physics at Stockholm University Prof Isabel Paiva PhD in Chemical Engineering is a researcher at C2TN at IST the School of Engineering of the University of Lisbon Marcus Inácio has a B Sc in Electrotechnical Engineering and is specialising in the field of Medical Physics at KTH the Royal Institute of Technology in Stockholm Sweden Hugo de Campos Pereira is an environmental engineer from Uppsala University

and a Ph D student specialising in the sorption of highly fluorinated compounds in soils at the Department of Soil and Environment at SLU the Swedish University of Agricultural Sciences in Uppsala Sweden **COMSOL Multiphysics**, 2005

Computational Fluid Dynamics and COMSOL Multiphysics Ashish S. Chaurasia, 2021-12-28 This textbook covers computational fluid dynamics simulation using COMSOL Multiphysics Modeling Software in chemical engineering applications. In the volume the COMSOL Multiphysics package is introduced and applied to solve typical problems in chemical reactors transport processes fluid flow and heat and mass transfer. Inspired by the difficulties of introducing the use of COMSOL Multiphysics software during classroom time the book incorporates the author's experience of working with undergraduate graduate and postgraduate students to make the book user friendly and that at the same time addresses typical examples within the subjects covered in the chemical engineering curriculum. Real world problems require the use of simulation and optimization tools and this volume shows how COMSOL Multiphysics software can be used for that purpose. Key features: Includes over 500 step by step screenshots Shows the graphical user interface of COMSOL which does not require any programming effort Provides chapter end problems for extensive practice along with solutions Includes actual examples of chemical reactors transport processes fluid flow and heat and mass transfer. This book is intended for students who want or need more help to solve chemical engineering assignments using computer software. It can also be used for computational courses in chemical engineering. It will also be a valuable resource for professors research scientists and practicing engineers.

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Chemical Engineering Computing is recommended for both undergraduate and graduate students as well as practicing engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem *Multiphysics Modeling Using COMSOL?* Roger Pryor, 2011 *Multiphysics Modeling Using COMSOL* rapidly introduces the senior level undergraduate graduate or professional scientist or engineer to the art and science of computerized modeling for physical systems and devices. It offers a step by step modeling methodology through examples that are linked to the Fundamental Laws of Physics through a First Principles Analysis approach. The text explores a breadth of multiphysics models in coordinate systems that range from 1D to 3D and introduces the readers to the numerical analysis modeling techniques employed in the COMSOL Multiphysics software. After readers have built and run the examples they will have a much firmer understanding of the concepts skills and benefits acquired from the use of computerized modeling techniques to solve their current technological problems and to explore new areas of application for their particular technological areas of interest *Finite Element Solutions for Civil and Environmental Engineers Using COMSOL Multiphysics* Larry Matel, 2020-10-07

Elements of Chemical Reaction Engineering H. Scott Fogler, Bryan R. Goldsmith, Eranda Nikolla, Nirala Singh, 2025-03-19 The Essential Textbook for Mastering Chemical Reaction Engineering Now Fully Updated with Expanded Coverage of Electrochemical Reactors H. Scott Fogler's *Elements of Chemical Reaction Engineering* now in its seventh edition continues to set the standard as the leading textbook in chemical reaction engineering. This edition coauthored by Bryan R. Goldsmith, Eranda Nikolla, and Nirala Singh still offers Fogler's engaging and active learning experience with updated content and expanded coverage of electrochemical reactors. Reflecting current theories and practices and with a continuing emphasis on safety and sustainability this edition includes expanded sections on molecular simulation methods, analysis of experimental reactor data and catalytic reactions. Leveraging the power of Wolfram, Python, POLYMATH and MATLAB students can explore the intricacies of reactions and reactors through realistic simulation experiments. This hands on approach allows students to clearly understand the practical applications of theoretical concepts. This book prepares undergraduate students to apply chemical reaction kinetics and physics to the design of chemical reactors. Advanced chapters cover graduate level topics including diffusion and reaction models, residence time distribution and tools to model non ideal reactors. The seventh edition includes An expanded section on molecular simulation methods and potential energy surfaces. Updated examples of experimental reactor data and its analysis. Detailed discussion of definitions in catalysis and examples of catalytic reactions. Additional examples and an expanded section on surface reaction mechanisms and microkinetic modeling. A new chapter on electrochemical reactors with example problems reflecting the growing importance of this field in renewable energy and industrial processes. About the Companion Web Site umich.edu/elements/7e/index.html Comprehensive PowerPoint slides for lecture notes for chemical reaction engineering classes. Links to additional software including POLYMATH™, MATLAB™, Python, Wolfram Mathematica™, AspenTech™ and COMSOL™ Interactive.

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Marcus Inácio,Hugo de Campos Pereira,Isabel Paiva,António de Campos Pereira,2020-06-26 This book gives the reader a quick introduction to the Application Builder tool in COMSOL Multiphysics This tool allows the user to build apps that are tailored to the needs of other engineers or scientists who are not specialists in modelling using COMSOL Multiphysics but who need to use simulations in their work to predict design or analyse the technical or economic potential of prototypes of industrial devices and other products or in the planning of large scale projects such as the types of projects that environmental engineers are usually confronted with These users need not be aware of the complex details of the underlying mathematical models when using Application Builder apps to contribute to their organisations or to the development and implementation of products for the market [14th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics](#) Alexei Katashev,Yuri Dekhtyar,Janis Spigulis,2008-07-30 14th Nordic Baltic Conference on Biomedical Engineering and Medical Physics NBC 2008 brought together scientists not only from the Nordic Baltic region but from the entire world This volume presents the Proceedings of this international conference jointly organized by the Latvian Medical Engineering and Physics Society Riga Technical University and University of Latvia in close cooperation with International Federation of Medical and Biological Engineering IFMBE The topics covered by the Conference Proceedings include Biomaterials and Tissue Engineering Biomechanics Artificial Organs Implants and Rehabilitation Biomedical Instrumentation and Measurements Biosensors and Transducers Biomedical Optics and Lasers Healthcare Management Education and Training Information Technology to Health Medical Imaging Telemedicine and E Health Medical Physics Micro and Nanoobjects

Nanostructured Systems Biophysics *[Chemical Engineering Progress](#)* ,2009 *Part I, COMSOL in Engineering Education* Jos van Schijndel,2009 **Fluid Mechanics for Chemical Engineers** James O. Wilkes,2017-07-20 The Chemical Engineer s Practical Guide to Fluid Mechanics Now Includes COMSOL Multiphysics 5 Since most chemical processing applications are conducted either partially or totally in the fluid phase chemical engineers need mastery of fluid mechanics Such knowledge is especially valuable in the biochemical chemical energy fermentation materials mining petroleum pharmaceuticals polymer and waste processing industries Fluid Mechanics for Chemical Engineers with Microfluidics CFD and COMSOL Multiphysics 5 Third Edition systematically introduces fluid mechanics from the perspective of the chemical engineer who must

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