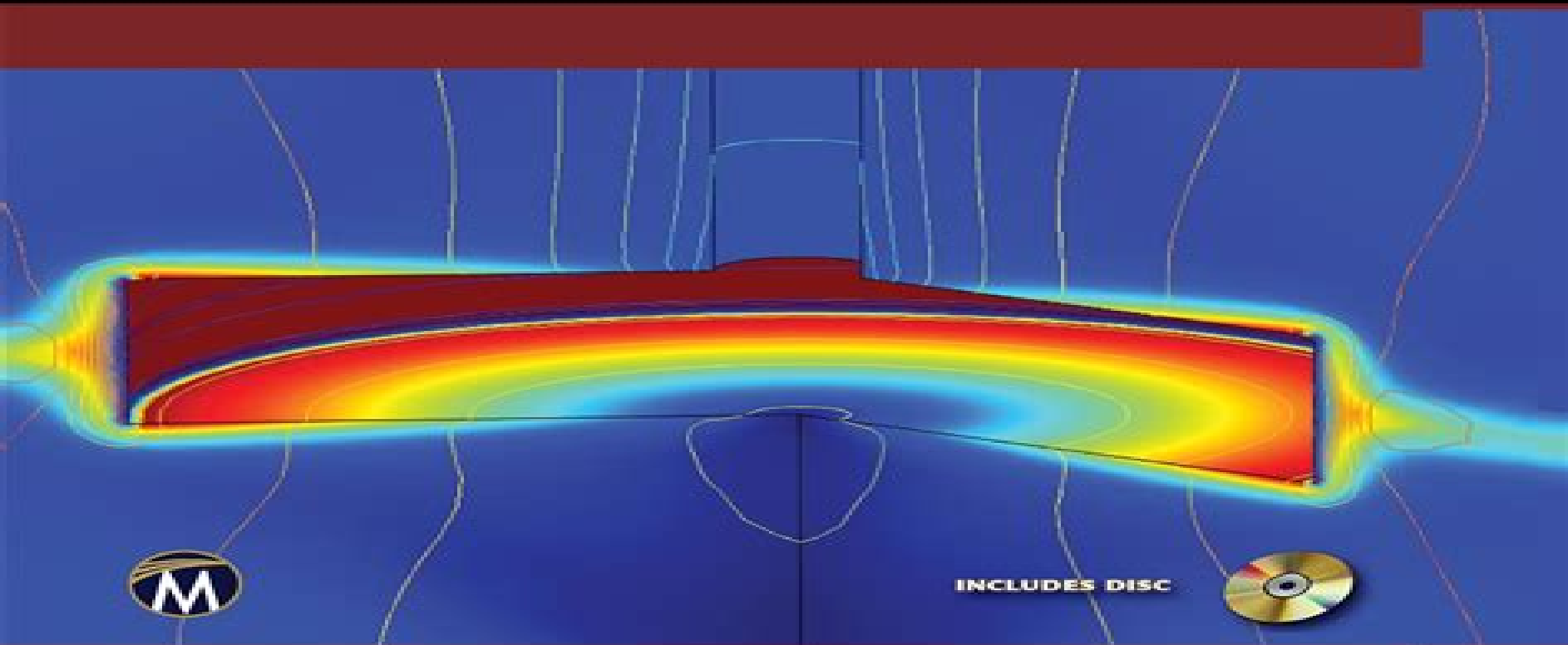
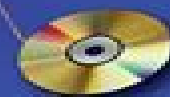


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files with executable copies of each model and related animations Includes detailed discussions of possible modeling errors and results Uses a step by step modeling methodology linked to the Fundamental Laws of Physics The companion files are also available online by emailing the publisher with proof of purchase at [info@merclearning.com](mailto:info@merclearning.com) *Introduction to Software for Chemical Engineers, Second Edition* Mariano Martín Martín, 2019-06-06 The field of Chemical Engineering and its link to computer science is in constant evolution and new engineers have a variety of tools at their disposal to tackle their everyday problems *Introduction to Software for Chemical Engineers Second Edition* provides a quick guide to the use of various computer packages for chemical engineering applications It covers a range of software applications from Excel and general mathematical packages such as MATLAB and MathCAD to process simulators CHEMCAD and ASPEN equation based modeling languages gProms optimization software such as GAMS and AIMS and specialized software like CFD or DEM codes The different packages are introduced and applied to solve typical problems in fluid mechanics heat and mass transfer mass and energy balances unit operations reactor engineering process and equipment design and control This new edition offers a wider view of packages including open source software such as R Python and Julia It also includes complete examples in ASPEN Plus adds ANSYS Fluent to CFD codes Lingo to the optimization packages and discusses Engineering Equation Solver It offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real world problems Written by leading experts this book is a must have reference for chemical engineers looking to grow in their careers through the use of new and improving computer software Its user friendly approach to simulation and optimization as well as its example based presentation of the software makes it a perfect teaching tool for both undergraduate and master levels **Fluid Mechanics for Chemical Engineers with Microfluidics and CFD.** James O. Wilkes, 2006 This second edition contains extensive new coverage of both microfluidics and computational fluid dynamics systematically demonstrating CFD through detailed examples using FlowLab and COMSOL Multiphysics The chapter on turbulence has been extensively revised to address more complex and realistic challenges including turbulent mixing and recirculating flows Jacket **MLI Physics Collection** , 2018-05-10 This digital collection of twelve book length titles encompasses all of the major subject areas of physics All twelve titles are combined into one easily downloadable file and are fully searchable in a Web pdf bookmarked file format Titles include electromagnetism particle physics quantum mechanics theory of relativity mathematical methods for physics computational physics electrical engineering experiments multiphysics modeling solid state physics radio astronomy Newtonian mechanics and physics lab experiments FEATURES Includes 12 full length book titles in one fully searchable Web pdf file Each book title is preceded by a descriptive page with overview and features All titles include the complete front matter text and end matter from the original printed version Over 5000 pages of physics information in one file Complete file downloads in less than two minutes LIST OF TITLES Particle Physics Robert Purdy PhD Mathematical Methods for Physics Using MATLAB and Maple J Claycomb PhD The Special Theory of Relativity

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*Automotive Engineering International*, 2008

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