

Comsol For Engineers

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COMSOL5 for Engineers
Modelling in Science and Engineering
Finite Element Solutions for Civil and Environmental Engineers Using COMSOL
Multiphysics
Computational Fluid Dynamics and COMSOL Multiphysics
Fluid Mechanics for Chemical Engineers
Chemical Engineering Progress
Automotive Engineering International
Mechanical Engineering
COMSOL Multiphysics
Processing and Application of Engineering Materials
Geotechnical Engineering Development
The Application Builder of COMSOL Multiphysics 5 - a Brief Introduction
Essentials of Chemical Reaction Engineering
Part I, COMSOL in Engineering Education
Bionanotechnology: Engineering Concepts and Applications
Advances in Key Engineering Materials
The Chemical Engineer
Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol. 44
Mechanical Engineering, Materials and Energy III
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no detailed description available for comsol for engineers

this updated edition covers comsol5 which now includes a revolutionary tool the application builder this component enables users to build apps based on comsol models that can be run on almost any operating system windows mac mobile ios etc designed for engineers from various disciplines the book introduces multiphysics modeling techniques and examples accompanied by practical applications using comsol5 x the book provides a collection of examples and modeling guidelines through which readers can build their own models features expands the finite element method fem theory and adds more examples from the original edition outlines the new features in comsol5 the graphical user interface gui and how to build a comsol app for models and includes apps for selected model examples with parameterization of these models features new and modified solved model examples in addition to the models provided in the original edition

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 ph d in chemical engeneering 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

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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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

today s definitive undergraduate level introduction to chemical reaction engineering problem solving for 30 years h scott fogler s elements of chemical reaction engineering has been the 1 selling text for courses in chemical reaction engineering worldwide now in essentials of

chemical reaction engineering second edition fogler has distilled this classic into a modern introductory level guide specifically for undergraduates this is the ideal resource for today's students learners who demand instantaneous access to information and want to enjoy learning as they deepen their critical thinking and creative problem solving skills fogler successfully integrates text visuals and computer simulations and links theory to practice through many relevant examples this updated second edition covers mole balances conversion and reactor sizing rate laws and stoichiometry isothermal reactor design rate data collection analysis multiple reactions reaction mechanisms pathways bioreactions and bioreactors catalysis catalytic reactors nonisothermal reactor designs and more its multiple improvements include a new discussion of activation energy molecular simulation and stochastic modeling and a significantly revamped chapter on heat effects in chemical reactors to promote the transfer of key skills to real life settings fogler presents three styles of problems straightforward problems that reinforce the principles of chemical reaction engineering living example problems leps that allow students to rapidly explore the issues and look for optimal solutions open ended problems that encourage students to use inquiry based learning to practice creative problem solving skills about the site umich.edu/elements/5e/index.html the companion site offers extensive enrichment opportunities and additional content including complete powerpoint slides for lecture notes for chemical reaction engineering classes links to additional software including polymath matlab wolfram mathematica aspentech and comsol multiphysics interactive learning resources linked to each chapter including learning objectives summary notes modules interactive computer games computer simulations and experiments solved problems FAQs and links to learncheme living example problems that provide more than 75 interactive simulations allowing students to explore the examples and ask what if questions professional reference shelf containing advanced content on reactors weighted least squares experimental planning laboratory reactors pharmacokinetics wire gauze reactors trickle bed reactors fluidized bed reactors CVD boat reactors detailed explanations of key derivations and more problem solving strategies and insights on creative and critical thinking register your product at informit.com register for convenient access to downloads updates and/or corrections as they become available

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