



# COMSOL5 for Engineers (Multiphysics Modeling)

By Mehrzad Tabatabaian



## COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian

COMSOL5 Multiphysics® is one of the most valuable software modeling tools for engineers and scientists. This book, an updated edition of the previously published, *COMSOL for Engineers*, 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 main objective is to introduce readers to use COMSOL as an engineering tool for modeling, by solving examples that could become a guide for modeling similar or more complicated problems. The book provides a collection of examples and modeling guidelines through which readers can build their own models. The mathematical fundamentals, engineering principles, and design criteria are presented as integral parts of the examples. At the end of chapters are references that contain more in-depth physics, technical information, and data; these are referred to throughout the book and used in the examples. *COMSOL5 for Engineers* could be used to complement another text that provides background training in engineering computations and methods. Exercises are provided at the end of the text for use in adoption situations.

### 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
- 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
- Companion disc with executable copies of each model and their related animations

**eBook Customers:** Companion files are available for downloading with order

number/proof of purchase by writing to the publisher at info@merclearning.com.

 [Download COMSOL5 for Engineers \(Multiphysics Modeling\) ...pdf](#)

 [Read Online COMSOL5 for Engineers \(Multiphysics Modeling\) ...pdf](#)

# COMSOL5 for Engineers (Multiphysics Modeling)

By Mehrzad Tabatabaian

## COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian

COMSOL5 Multiphysics® is one of the most valuable software modeling tools for engineers and scientists. This book, an updated edition of the previously published, *COMSOL for Engineers*, covers COMSOL 5 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 main objective is to introduce readers to use COMSOL as an engineering tool for modeling, by solving examples that could become a guide for modeling similar or more complicated problems. The book provides a collection of examples and modeling guidelines through which readers can build their own models. The mathematical fundamentals, engineering principles, and design criteria are presented as integral parts of the examples. At the end of chapters are references that contain more in-depth physics, technical information, and data; these are referred to throughout the book and used in the examples. *COMSOL5 for Engineers* could be used to complement another text that provides background training in engineering computations and methods. Exercises are provided at the end of the text for use in adoption situations.

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
- 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
- Companion disc with executable copies of each model and their related animations

**eBook Customers:** Companion files are available for downloading with order number/proof of purchase by writing to the publisher at [info@merclearning.com](mailto:info@merclearning.com).

## COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian Bibliography

- Sales Rank: #1595893 in Books
- Published on: 2015-08-21
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 1.00" w x 7.00" l, .0 pounds
- Binding: Hardcover
- 312 pages

 [Download COMSOL5 for Engineers \(Multiphysics Modeling\) ...pdf](#)

 [Read Online COMSOL5 for Engineers \(Multiphysics Modeling\) ...pdf](#)

## **Download and Read Free Online COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian**

---

### **Editorial Review**

#### **About the Author**

Mehrzad Tabatabaian holds a PhD from McGill University and is currently the chairman of the Energy Efficiency and Renewable Energy Division at the British Columbia Institute of Technology. He has written numerous journal articles, has registered patents, and currently teaches courses in renewable energy and thermal engineering.

### **Users Review**

#### **From reader reviews:**

##### **Lacey Clements:**

The book COMSOL5 for Engineers (Multiphysics Modeling) make one feel enjoy for your spare time. You may use to make your capable considerably more increase. Book can to be your best friend when you getting tension or having big problem with your subject. If you can make studying a book COMSOL5 for Engineers (Multiphysics Modeling) for being your habit, you can get much more advantages, like add your personal capable, increase your knowledge about several or all subjects. It is possible to know everything if you like open up and read a publication COMSOL5 for Engineers (Multiphysics Modeling). Kinds of book are several. It means that, science guide or encyclopedia or other individuals. So , how do you think about this reserve?

##### **Paul Norris:**

This COMSOL5 for Engineers (Multiphysics Modeling) are usually reliable for you who want to be a successful person, why. The reason of this COMSOL5 for Engineers (Multiphysics Modeling) can be on the list of great books you must have is usually giving you more than just simple looking at food but feed you with information that might be will shock your previous knowledge. This book is usually handy, you can bring it everywhere and whenever your conditions at e-book and printed people. Beside that this COMSOL5 for Engineers (Multiphysics Modeling) forcing you to have an enormous of experience such as rich vocabulary, giving you trial of critical thinking that we realize it useful in your day pastime. So , let's have it and luxuriate in reading.

##### **Viola Waters:**

Hey guys, do you desires to finds a new book to see? May be the book with the headline COMSOL5 for Engineers (Multiphysics Modeling) suitable to you? The book was written by renowned writer in this era. The book untitled COMSOL5 for Engineers (Multiphysics Modeling)is the main one of several books which everyone read now. This kind of book was inspired a number of people in the world. When you read this book you will enter the new dimensions that you ever know previous to. The author explained their thought in the simple way, so all of people can easily to comprehend the core of this e-book. This book will give you a lots of information about this world now. So you can see the represented of the world with this book.

**Esther Belote:**

Many people spending their time frame by playing outside using friends, fun activity using family or just watching TV all day long. You can have new activity to spend your whole day by examining a book. Ugh, ya think reading a book will surely hard because you have to bring the book everywhere? It fine you can have the e-book, taking everywhere you want in your Smartphone. Like COMSOL5 for Engineers (Multiphysics Modeling) which is finding the e-book version. So , try out this book? Let's find.

**Download and Read Online COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian #A0752SLN8PV**

# **Read COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian for online ebook**

COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian books to read online.

## **Online COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian ebook PDF download**

**COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian Doc**

**COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian Mobipocket**

**COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian EPub**

**A0752SLN8PV: COMSOL5 for Engineers (Multiphysics Modeling) By Mehrzad Tabatabaian**