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here is to describe how

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after which the

methodology can be

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examples that show you how to use the COMSOL Desktop® user interface and the Model Builder. If you have not yet installed the software, install it now according to the instructions at: [www.comsol.com/product-download](http://www.comsol.com/product-download).

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software. We discuss defining the physics, choosing boundary conditions, describing material properties, solving, and postprocessing a model of a printed dipole antenna device. In addition, you will learn about how you can use simulation to study more advanced RF devices.

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settings; 2–4 p.m. PST.  
Solver strategies for  
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Multiphysics. Modeling a Typical Short Circuit in a Lithium-Ion Battery. In the Internal Short Circuit of a Lithium-Ion Battery tutorial model, we use COMSOL Multiphysics to predict the current flow and localized

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heating associated with an internal short circuit. The short circuit is caused by a micron-scale lithium filament connecting the positive and negative electrode materials.

How to Model Short  
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4 Theoretical and  
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*Page 27/40*

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ICMM lecture

1.MICRO-SCALE:

Selection (construction)

of a (periodic)

Representative

Elementary Volume

(REV) of a porous

medium. Stokes flow,

i.e., linear & steady,

viscous, incompressible

flow through the

periodic RVE, driven by

a uniform pressure

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gradient. Averaging of  
the computed velocity  
field to determine the  
permeability of

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Solver strategies for  
nonlinear and  
multiphysics problems;  
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The COMSOL

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Watch this 18-minute archived webinar to learn the basics of modeling thermal stress in the COMSOL Multiphysics® software. We discuss the advantages of performing a thermomechanical analysis early in the product design process



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as well as important mechanisms to consider, such as thermal expansion, phase change, and thermal creep. Want to learn more about modeling thermal stress?

Introduction to  
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and Engineering: A  
brief introduction to  
COMSOL Multiphysics  
5 Paperback – June 21,  
2019 by António de  
Campos Pereira  
(Author), Marcus Inácio  
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Modelling in Science  
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In COMSOL Multiphysics<sup>®</sup> version 5.2, the Model Builder and Application Builder are more tightly integrated. You now have the option to include dynamic graphic updates to plots while solving. A new Editor Tools feature enables you to quickly create standard interface components in apps.

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Watch this 18-minute archived webinar for an introduction to modeling batteries in the COMSOL Multiphysics® software. We discuss predicting and optimizing current and voltage calculations as well as accounting for

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related engineering To  
concerns (like battery  
heating). In addition,  
you will see a  
demonstration of  
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battery.

Modelling in Science  
and Engineering  
Multiphysics Modelling  
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