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*Introduction to COMSOL
acoustics 4* ~~4 Solving time-
dependent 1D PDE by COMSOL
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Multiphysics | COMSOL for
Beginners (4/6)~~ COMSOL: Time
Dependent 2D Heat transfer

Problem with Animation L-4
*Getting Started with COMSOL
Multiphysics | Tutorial #1*

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Multiphysics ~~Analysis of
Fixed Beam by COMSOL
Multiphysics (Solid
Mechanics Module)~~ How to Add
a Study to Your Simulation
in COMSOL Multiphysics®

Defining Physics in COMSOL
Multiphysics (4/8) *Acoustic
Modeling with Comsol 1.6
COMSOL to MATLAB Livelink
Tutorial 1 - Introduction I*

COMSOL Multiphysics® حرش
COMSOL چمان ربل طسبم
Multiphysics 5.3--parti N01

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~~08. Heat Generation in COMSOL~~

~~Multiphysics - I COMSOL:~~

~~Nonlinear ODE solver L-8~~

~~simulation of a surface
acoustic wave sensor (SAW)
on Comsol Multiphysics~~

~~Surface Plasmon Simulation~~

~~Tutorial Basic COMSOL heat
transfer in solids COMSOL~~

~~Tutorial 1 - Cairo~~

~~University - Arabie~~

~~Narration~~

~~COMSOL Multiphysics tutorial~~

~~Acoustic structure~~

~~interaction~~

~~Lecture 11 (CEM) -- Finite~~

~~Difference Analysis of~~

~~Waveguides Tutorial 3 -~~

~~Defining Global Parameters~~

~~and Materials COMSOL~~

~~Multiphysics® COMSOL~~

~~Multiphysics Demonstration~~

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Multiphysics 4.3b © 2 0 1 3

C O M S O L 3 | G E C I C P

R E A C T O R, A R G O N / O

X Y G E N C H E M I S T R Y

where x_j is the mole

fraction of the target

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species for reaction j , k_j is the rate coefficient for reaction j (SI unit: m^3/s), and N_n is the total neutral number density (SI unit: $1/\text{m}^3$). The electron energy loss is obtained by summing the collisional energy loss over

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Multiphysics 4.3b GEC ICP
Reactor ...~~

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MAGNETIC LENS ©2012 COMSOL
Figure 3: Poincaré plot of
the particle location in the
xy-plane initially (red), at
the focal point of the lens
(blue) and at the last time
step (black).

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Lens~~

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Multiphysics 4.3 | Di Huang~~

~~...~~

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BOILING WATER ©2013 COMSOL
transfer coefficient of more
than $104\text{W}/(\text{m}^2\cdot\text{K})$, much
higher than any heat
transfer coefficient that
occurs due to convection...

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Multiphysics 4.3b Boiling
Water~~

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Multiphysics 4.4 2 | FRESNEL
EQUATIONS. model out-of-
plane symmetry. The angle of
incidence ranges between
0-90 ° for both
polarizations. For
comparison, Ref. 1 and Ref.
2 provide analytic
expressions for the
reflectance and
transmittance. Reflection
and transmission
coefficients for s-
polarization and

~~Solved with COMSOL
Multiphysics 4.4 Fresnel
Equations~~

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COMSOL . 3 | HEAT GENERATION

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IN A DISC BRAKE. The model also includes heat conduction in the disc and the pad through the transient heat transfer equation where k represents the thermal conductivity ($\text{W}/(\text{m}\cdot\text{K})$), C_p is the specific heat capacity ($\text{J}/(\text{kg}\cdot\text{K})$), and Q is the heating power per unit volume (W/m^3).

~~Solved with COMSOL
Multiphysics 4.3a Heat
Generation in a ...~~

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Multiphysics 4.1 SLOSHING
TANK | 7 MATERIALS Material
1 1 In the Model Builder
window, right-click Model
1>Materials and choose

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Material. 2 Go to the
Settings window for
Material. 3 Locate the
Material Contents section.
In the Material Contents
table, enter the following
settings: LAMINAR FLOW

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Multiphysics 4.1 Sloshing
Tank~~

Solved with COMSOL
Multiphysics 4.1. LAMINAR
FLOW IN A BAFFLED STIRRED
MIXER| 3. can proceed to the
usual steps of setting the
fluid properties and the
boundary conditions, and
finally to meshing and
solving the problem. Figure
2: Geometry of the baffled
stirred mixer.

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~~Solved with COMSOL
Multiphysics 4.1 Laminar
Flow in a ...~~

COMSOL Multiphysics version 4.3 establishes COMSOL as the leading innovator in multiphysics simulation for electrical, mechanical, fluid, and chemical applications. ... These are solved while considering the transport of ions and neutral species in the solution, the current conduction in the metal structure, and other phenomena such as fluid ...

~~COMSOL 4.3 Release
Highlights — COMSOL
Multiphysics~~

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Multiphysics 4.3a Turbulent
Flow Through a Shell-and-
Tube Heat Exchanger

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Multiphysics 4.3a Turbulent
Flow ...~~

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JOURNAL BEARING | 5 GLOBAL
DEFINITIONS Parameters 1 In
the Model Builder window,
right-click Global
Definitions and choose
Parameters. 2 Go to the
Settings window for
Parameters. 3 Locate the
Parameters section. In the
Parameters table, enter the
following settings: GEOMETRY

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Multiphysics 4.0a. Journal
Bearing~~

To download the MPH-files,
log in or create a COMSOL
Access account that is
associated with a valid
COMSOL license. Note that
many of the examples
featured here can also be
accessed via the Application
Libraries that are built
into the COMSOL Multiphysics
® software and available
from the File menu.

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Modeling Examples for
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Multiphysics 4.2 ©2011

COMSOL . 3 | PERISTALTIC
PUMP . of the domain is
computed using Winslow
smoothing. Inside the wall
of the tube, the moving mesh
follows the deformations of
the tube. For more
information, please refer to
the chapter The Fluid-
Structure Interaction
Interface. in the . ructural
Mechanics St Module User's
Guide.

~~Solved with COMSOL
Multiphysics 4.2 Peristaltic
Pump~~

COMSOL Multiphysics (Femlab)
is a simulation package that
solves systems of nonlinear
partial differential

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equations by the finite element method in one, two, and three dimensions. It allows you to solve problems in the field of electromagnetism, the theory of elasticity, the dynamics of liquids and gases and chemical gas dynamics.

~~how to crack COMSOL
Multiphysics 5.4.0 | | CLICK
TO ...~~

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Multiphysics 4.4 4 | CORONA
DISCHARGE. The space charge
density ρ is automatically
computed based on the plasma
chemistry specified in the
model using the formula

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~~Multiphysics 4.4 Corona Discharge~~

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Multiphysics 4.3b 8 | E-CORE
TRANSFORMER ©2013 COMSOL
Notes About the COMSOL
Implementation Use the
Magnetic Fields physics
interface to model the
magnetic fields of the
transformer.

~~Solved with COMSOL Multiphysics 4.3b E-Core Transformer~~

Particle Tracing Module
Updates. For users of the
Particle Tracing Module,
COMSOL Multiphysics ®
version 5.4 includes support
for Accumulators in the
Velocity Reinitialization

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feature, the option to
offset velocity
distributions of released
particles by any expression,
and a new benchmark model
named Quasi-2D
Turbomolecular Pump. Read
more about these new
features in the Particle
Tracing ...

~~Particle Tracing Module
Updates — COMSOL® 5.4
Release ...~~

COMSOL Multiphysics New
Products in Version 4.3 The
following new products are
introduced with COMSOL
Multiphysics version 4.3: †
Corrosion Module, for
modeling of corrosion and
corrosion protection. See

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Corrosion Module for more information. † Nonlinear Structural Materials Module, for structural analysis of materials with nonlinear behavior.

~~Comsol Multiphysics~~

COMSOL Multiphysics uses a generalized version of the Navier-Stokes equations to allow for variable viscosity. Starting with the momentum balance in terms of stresses, the generalized equations in terms of transport properties and velocity gradients are (6-1)

$$\rho \frac{\partial u}{\partial t} - \nabla \cdot (\eta \nabla u) + (\nabla u) \cdot \nabla \rho = F - \nabla \cdot u = 0.$$

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