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Quick Intro to Modeling RF and Microwave Heating | COMSOL Blog
RF heating in a waveguide is modeled using the Microwave Heating predefined interface available when adding the RF Module to the COMSOL Multiphysics® simulation platform. Physics Configurations: Define Ports, Cables, Line Currents, and More

How To Model And Simulate 3D Geometry? | COMSOL Multiphysics Tutorial-2
COMSOL is the developer of COMSOL Multiphysics software, an interactive environment for modeling and simulating scientific and engineering problems.

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Coaxial to Waveguide Coupling. Application ID: 1863. Feeding a waveguide from a coaxial cable is a straightforward way to achieve electromagnetic waves inside a waveguide. Due to its small size and circular shape, ... The combination of COMSOL ...

RF Module - COMSOL 5.1 Release Highlights

We like to feature a certain waveguide model in our RF and microwave heating webinars because it

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illustrates the concept in a way that is easy to understand. Here it is again, serving as a quick intro to modeling RF and microwave heating. [Brief Intro to RF and Microwave Heating](#)

[How to Use Circular Ports in the RF Module | COMSOL Blog](#)

Watch this step-by-step instructional video to learn how the Microwave Heating interface in COMSOL Multiphysics can help you solve a variety of RF and microwave heating problems. In this example ...

[How to Model RF Heating in a Waveguide Bend](#)

RF Module Updates. For users of the RF Module, COMSOL Multiphysics® version 5.5 includes mixed-mode S-parameters, two new Port types, and a new specific absorption rate feature. Learn more about these features below. [Specific Absorption Rate](#). Users of consumer electronics with radiating devices are exposed to RF emission, and the amount of exposure is characterized by the specific absorption ...

[Slot Waveguide - COMSOL Multiphysics®](#)

Read [Free Comsol Rf Waveguide](#) [Comsol Rf Waveguide](#). [comsol rf waveguide](#) - What to tell and what to get once mostly your friends love reading? Are you the one that don't have such hobby? So, it's important for you to start having that hobby. You know, reading is not the force. We're sure that reading will guide you to colleague in bigger concept ...

[COMSOL Multiphysics® Modeling Software](#)

[COMSOL Multiphysics® 5.1 Release Highlights](#) [Download Version 5.1](#). [Menu](#). [Introducing COMSOL 5.1; General Updates](#). [Application Builder](#)

[Waveguide Iris Bandpass Filter - COMSOL Multiphysics®](#)

Watch this video to learn the building of 3D geometry and simulation in COMSOL! For an example, I have modeled and simulated a piece of circular waveguide. This video also includes the application ...

[H-Bend Waveguide 3D - COMSOL Multiphysics®](#)

In this video, we will learn how to perform the mode analysis for the rectangular waveguide. You can find the number of modes that can be propagated with the lowest attenuation in any type of ...

[Coaxial to Waveguide Coupling - COMSOL Multiphysics®](#)

The Coplanar Waveguide (CPW) is commonly used in microwave circuits. COMSOL Multiphysics, with the RF Module, makes it easy to compute the impedance, fields, losses, and other operating parameters needed

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when designing a CPW. Grounded Coplanar Waveguide Design in 2D. Two typical Coplanar Waveguides are diagrammed in cross section below.

Modeling of Coplanar Waveguides | COMSOL Blog

Simulation of RF heating in microwave and RF products is vital to understanding the electromagnetic losses that occur and how transient thermal behavior affects device performance. In this step-by-step instructional video, you will learn how to model RF and microwave heating in a waveguide bend containing a dielectric block with COMSOL Multiphysics simulation software.

Comsol Rf Waveguide - symsys03.stanford.edu

Waveguide Iris Bandpass Filter. ... resonators combined with these reactive elements which can be created by inserting a series of iris elements inside the waveguide. This model consists of a X-band waveguide WR-90 and symmetrical inductive diaphragms ... The combination of COMSOL ...

EM Mode Analysis For The Rectangular Waveguide | COMSOL Multiphysics Tutorial-5

The Port boundary condition in the RF Module, an add-on to the COMSOL Multiphysics® software, can be used to launch and absorb electromagnetic energy. We explain how to set up a circular waveguide port and review the analytical solution that defines the port mode field. We also analyze a polarized circular port for power transmission with respect to port orientation, and then extend the model ...

RF Module Updates - COMSOL® 5.3a Release Highlights

The model analyses the mode propagation within a nano slot waveguide. In a slot waveguide configuration, two high refractive index slabs (~3.48) are placed adjacent to the low refractive index slot (~1.44). Mode analysis was performed on a 2D cross section of a slot waveguide for an operating wavelength of 1.55[um].

How to Use Numeric Ports in Your RF Analyses | COMSOL Blog

The combination of COMSOL® products required to model your application depends on several factors and may include boundary conditions, material properties, physics interfaces, and part libraries. Particular functionality may be common to several products. To determine the right combination of products for your modeling needs, review the Specification Chart and make use of a free evaluation ...

Simulating RF Heating in COMSOL Multiphysics

How to Use Numeric Ports in Your RF Analyses. by Lipeng Liu. October 12, 2018. Using the Numeric Port

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feature, available in the COMSOL Multiphysics® software with the add-on RF Module, the mode of a port with an arbitrary shape can be computed numerically via a boundary mode analysis. ... A Waveguide Adapter Example.

mode analysis of a waveguide - comsol.nl

RF Module Updates For users of the RF Module, COMSOL Multiphysics® version 5.3a brings a new study step for running adaptive frequency sweeps, a Material Library for microwave and millimeter-wave circuit boards, an extended RF Part Library with edge launch connectors, and an example of a wideband radar cross section (RCS) calculation using time-explicit simulation.

Modeling Software for RF ... - COMSOL Multiphysics®

In this video tutorial you will learn how COMSOL Multiphysics can be used to model the microwave heating of a waveguide. The effect of a dielectric block is included in the model.

RF Module Updates - COMSOL® 5.5 Release Highlights

mode analysis of a waveguide. Posted 3 jun. 2013 12:13 GMT-4 RF & Microwave Engineering Version 5.1 2 Replies . Yutaro Iwasa . Send Private Message Flag post as spam. Please login with a confirmed email address before reporting spam Dear all, I'm trying ... Sven Friedel COMSOL Employee ...

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