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Waveguide Simulation with the Beam Envelope Method

Tuesday, September 17, 2019 2:00 PM - 3:00 PM EDT

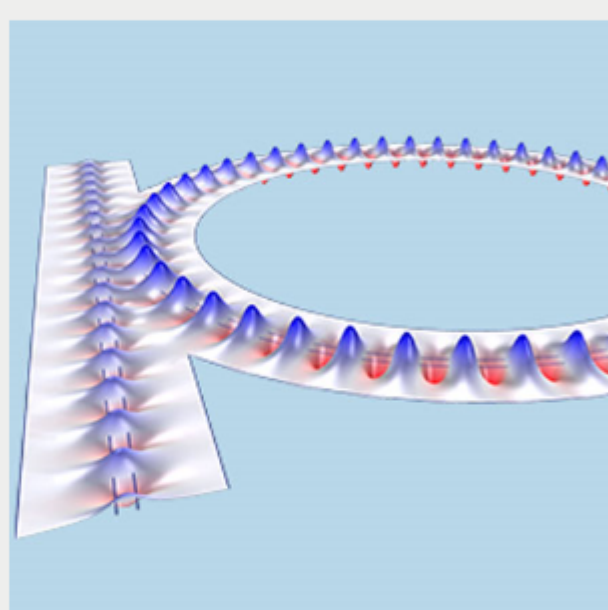
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Presented by



About This Webinar

The beam envelope method is an efficient numerical tool for solving nonlinear optics in long and slender structures, such as optical waveguides, laser rods, and more. This webinar will demonstrate that the *Wave Optics, Beam Envelopes* interface in the Wave Optics Module, an add-on to the COMSOL Multiphysics® software, is suitable for analyzing various kinds of optical waveguides. You will learn how the *Wave Optics, Beam Envelopes* interface enables the analysis of long optics without having many mesh elements or any theoretical approximation, and you will learn how to set up a model. The speaker will also present advanced examples using the *Wave Optics, Beam Envelopes* interface. There will be ample time for Q&A at the end of the presentation.



About the presenter:

Yosuke Mizuyama, Ph.D., is an applications engineer at COMSOL. He has 23 years of experience in design, development, and production for consumer electronics. He joined COMSOL, where he develops photonics- and laser-related applications, in 2015. He received his doctorate in applied mathematics from Kyushu University.

Who should attend:

Researchers and engineers working for technical enterprises, research labs, and universities who are interested in easy-to-use software for modeling and simulation of real-world multiphysics systems. Optical engineers and designers in the automotive, aerospace, microelectronics, energy, medical device, and other fields that use optical waveguides will benefit from this webinar.

About COMSOL:

COMSOL is a global provider of software solutions for multiphysics modeling. Its COMSOL Multiphysics® product is an integrated software environment for creating physics-based models and simulation apps. Add-on products expand the simulation platform for electrical, mechanical, fluid flow, and chemical applications. Interfacing tools enable the integration of COMSOL Multiphysics® simulations with all major technical computing and CAD tools on the CAE market. Simulation experts rely on the COMSOL Server™ product to deploy apps to their design teams, manufacturing departments, test laboratories, and customers throughout the world.

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Mark Your Calendar

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Required: Mac OS® X 10.6 or newer

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Required: iPhone®, iPad®, Android™ phone or tablet, Windows 8 or Windows Phone 8

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