



COMSOL Multi-Physics a Powerful Tool for Electromagnetic Devices Modeling

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ABSTRACT

This talk provides an overview of COMSOL Multiphysics – its capabilities, new features, enhanced functionality, and revamped graphical user interface. This talk is designed for new COMSOL users. It will examine the new, model-builder-based interface which, in addition to heightened efficiency, provides new functionality to modify and quickly adapt models. This talk will cover how to use COMSOL as a powerful tool for Electromagnetic Devices modeling. Electrostatic model will be introduced through examine the behavior of parallel plate capacitor. Moreover, advanced photonic splitter based on dual core photonic crystal fiber will be simulated using COMSOL.

What you expect after attending this talk:

- Get an introduction to the capabilities and the fundamental modelling workflow of COMSOL Multiphysics.
- Get introduction to the most recent models implemented in COMSOL software that can be used in Electromagnetic devices modeling
- Start your first practical Example in COMSOL (Modelling of Parallel plate capacitor)
- Get introduction to field of Photonics and how to use COMSOL in photonic devices modeling
- Do a practical example in photonics and how to design optical splitter