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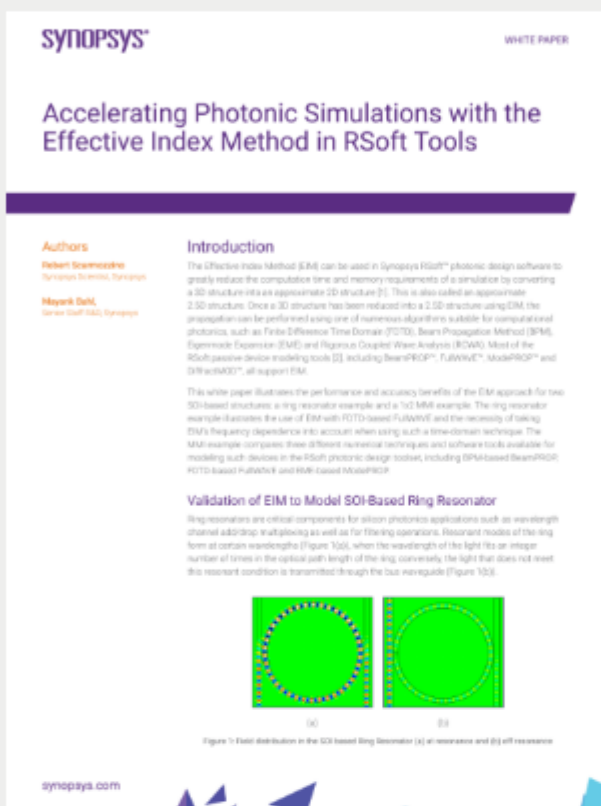


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Accelerating Photonic Simulations with the Effective Index Method in RSoft Tools

The Effective Index Method (EIM) can be used in Synopsys RSoft™ photonic design software to greatly reduce the computation time and memory requirements of a simulation by converting a 3D structure into an approximate 2D structure. This is also called an approximate 2.5D structure. Once a 3D structure has been reduced into a 2.5D structure using EIM, the propagation can be performed using one of numerous algorithms suitable for computational photonics, such as Finite Difference Time Domain (FDTD), Beam Propagation Method (BPM), Eigenmode Expansion (EME) and Rigorous Coupled Wave Analysis (RCWA). Most of the RSoft passive device modeling tools (2), including BeamPROP™, FullWAVE™, ModePROP™ and DiffractMOD™, all support EIM.

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