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High-Performance FDTD Simulations with Sub-Cell/Conformal Meshing in RSoft FullWAVE

Due to the computationally intensive nature of the FDTD simulation method, improved accuracy and convergence are critical for its practical use as a design algorithm in applications where numerous design variants need to be explored. This white paper presents four photonics design case studies that demonstrate significantly higher accuracy and smoother convergence obtained with the RSoft proprietary sub-cell meshing (SCM) technique, also called conformal meshing, when compared to the commonly used staircase meshing approach.

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