Abstracts

High-accuracy assigned power excitation for the FDTD technique

G. Bellanca. "High-accuracy assigned power excitation for the FDTD technique." 1997 Microwave and Guided Wave Letters 7.12 (Dec. 1997 [MGWL]): 411-413.

When the finite-difference time-domain (FDTD) technique is used in continuous wave excitation, the control of the effectively excited power is not allowed by classical approaches. In this letter two possible solutions, working also for nonuniform sampling of the computational domain, are proposed and illustrated. Examples of successfully applications for a metallic rectangular waveguide are, finally, reported.

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