Abstracts

Physical interpretation of the transparent absorbing boundary for the truncation of the computational domain

S.A. Tretyakov. "Physical interpretation of the transparent absorbing boundary for the truncation of the computational domain." 1998 Microwave and Guided Wave Letters 8.10 (Oct. 1998 [MGWL]): 321-323.

Physical interpretation of the recently introduced transparent absorbing boundary for the grid termination in finite methods shows that the absorbing domain in that method is described by the constitutive equations of moving media. The field solutions in this domain give the requirements for the material parameters to provide zero reflection at arbitrary incidence angles and arbitrary polarizations of the incident waves.

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