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Subjects: Optics (physics.optics) Cite as: arXiv:1204.2426 [physics.optics] (or arXiv:1204.2426v3 [physics.optics] for this version)

Vicente Delgado, Ricardo Marqués, Lukas Jelinek

Coupled-wave surface-impedance analysis

In this paper we present an efficient Coupled-wave surface-impedance method for the analysis of

extraordinary optical transmission (EOT) through single and stacked realistic metallic screens under

normal and oblique incidence, including possible dielectric interlayers. The proposed theory is valid for the complete frequency range where EOT has been reported, including microwaves and optics.

Electromagnetic simulations validate the results of the model, which allows for a fast and accurate

of extraordinary transmission through

single and stacked metallic screens

(Submitted on 11 Apr 2012 (v1), last revised 26 Jul 2012 (this version, v3))

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Which authors of this paper are endorsers?

characterization of the analyzed structures.

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