

electromagnetic theory of gratings pdf

It is well known that the eigenfrequencies of an open system correspond to the poles of its scattering matrix or of Fresnel coefficients [28]. The numerical computation of these poles remains a ...

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When I was a student, in the early fifties, the properties of gratings were generally explained according to the scalar theory of optics. The grating formula (which predicts the diffraction angles for a given angle of incidence) was established, experimentally verified, and intensively used as a source for textbook problems. Indeed those grating properties, we can call optical properties, were taught in a satisfactory manner and the students were able to clearly understand the ...

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Electromagnetic Theory of Gratings | R. Petit | Springer

After presenting various grating problems which arise nowadays in modern physics, a review of the basic ideas of the main electromagnetic theories of gratings is given, pointing out their specific domains of validity, advantages and shortcomings.

Electromagnetic theory of gratings: review and potential

A new theory is presented to study the diffraction and absorption of an electromagnetic wave by a two dimensional grating, in order to optimize the geometrical effects of absorbing surfaces.

Electromagnetic theory of crossed gratings - IOPscience

As far as we know, only a few studies have been, up to now, devoted to anisotropic gratings. We only have heard of the paper by our Japanese colleagues of Osaka Prefecture University.¹ We are also working in this field, in view of potential applications.

About The Electromagnetic Theory Of Gratings Made With

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This can be done using some powerful mathematical tools which have been successfully applied, among others, by G. Bouchitté and R. Petit in the electromagnetic theory of gratings [2, 4] and by G ...

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OSA | Electromagnetic theory of gratings: some advances

The purpose of this paper is to inform experimenters of what can be done to predict from the Electromagnetic Theory the properties of gratings when their profile and the indices of the materials making them up are known.

Electromagnetic grating theories: Limitations and successes

Echelle grisms: an old challenge to the electromagnetic theory of gratings now resolved M. Nevière The author is with the Laboratoire d'Optique Electromagnétique,

Echelle grisms: an old challenge to the electromagnetic

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