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This volume covers: spectral theory of gratings (Chapter 1) giving reliable grounds for physical analysis of space-frequency and space-time transformations of the electromagnetic field in open periodic resonators and waveguides; authentic analytic regularization procedures (Chapter 2)

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In the modern theory of gratings the electromagnetic waves diffraction problems are formulated as boundary value problems for Maxwell equations (see, for example, [21], [22]). In these books the ...

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Spectral theory of gratings, providing a reliable foundation for the analysis of spatial - frequency transformations of electromagnetic fields occurring in open periodic resonators and waveguides;

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Resonant waveguide gratings (RWGs), also known as guided mode resonant (GMR) gratings or waveguide-mode resonant gratings, are dielectric structures where these resonant diffractive elements benefit from lateral leaky guided modes from UV to

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microwave frequencies in many different
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**Recent Advances in Resonant
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Sirenko, YK and Ström, S (eds) (2010)
Modern Theory of Gratings: Resonant
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p. 390. 25. Shestopalov, V and Shestopalov, Y (1996) Spectral Theory and Excitation of Open Structures. London: Peter Peregrinus. 26.

A multi-function resonator based on an asymmetric tri-post ...

The wavelength dependence in the grating equation shows that the grating

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separates an incident polychromatic beam into its constituent wavelength components, i.e., it is dispersive. Each wavelength of input beam spectrum is sent into a different direction, producing a rainbow of colors under white light illumination.

Diffraction grating - Wikipedia

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The initial boundary value problems considered describe the transient electromagnetic fields formed by open periodic, compact, and waveguide resonators. The methods developed and the mathematical and physical results obtained provide a basis on which a modern theory for the scattering of resonant non-harmonic waves can be

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