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Diffraction Gratings: Theory and Applications 9 Applications zReflective Gratings are wavelength-selective filters. Other examples of filters are Fiber Bragg grating, Fabry-Perot, Mach-Zehnder, etc zIn optical communications, they are used for 1. Wavelength Selection: Splitting and/or combining optical signals 2.

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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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The following issues will be considered in the book Authentic methods of analytical regularization, that perfectly match the requirements of analysis of resonant scattering of electromagnetic waves by gratings; 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; Parametric Fourier method and C-method, that are oriented towards the efficient ...

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The principal results of modern electromagnetic theory of gratings are reviewed briefly in this chapter. The model initial boundary value problems and boundary value problems are formulated and supplied with basic equations, domains of analysis, boundary and initial conditions, and the condition providing their unambiguous resolution are determined.

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gratings, waveguide units, open resonators, radiators, etc. are described by the solutions of initial boundary value problems and boundary value problems for Maxwell ' s equations. In this chapter, we consider the problems of electromagnetic theory of gratings resulting from

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