



Diffraction X-ray Optics,

A.I. Erko, Vitaly V. Aristov, Vidal

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Diffraction X-ray Optics provides a systematic description of the performance and mathematical properties of diffraction x-ray optical elements based upon artificially made microstructures. This description is presented both theoretically (using kinematic diffraction theory and classical optics) and experimentally (including details of the experimental verification of theoretical data). The microstructures which are considered include: plane zone plates, two and three dimensional gratings, multilayer mirrors and three dimensional Fresnel structures.

The book also includes a detailed description of the main principles, technology and applications of both Bragg-Fresnel multilayer optics and x-ray Fourier optics. Special attention is paid to coherent phenomena in the x-ray region, x-ray holography and Bragg-Fresnel optics and with chapters covering absorption and refraction, planar diffraction, volume holography, fabrication techniques and microscopy this book will prove a useful sourcebook to both researchers and development engineers in the field.

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