
Description: The first inclusive book on the cutting-edge field of modern optics and its applications

For the first time, all the major aspects of designing planar DOEs are covered in one book, comprised of original methods developed by experts at the Russian Academy of Sciences' Image Processing Systems Institute. The breadth of Methods for Computer Design of Diffractive Optical Elements covers DOE production, beginning from the design techniques and the software, to the fabrication technology, experimental studies, and testing of DOEs, including all major DOE application fields and DOE types. The contributors also detail the three key approaches to designing phase DOEs: a geometric optics (ray-tracing) method, the scalar diffraction (Kirchhoff) method, and the rigorous design based on electromagnetic theory. Methods for Computer Design of Diffractive Optical Elements is an estimable reference for experts in the aerospace industry, research and development institutes, the automobile industry, as well as students and university professors.

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Iterative Methods for Designing DOEs (L.L. Doskolovich, et al.).


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