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Titolo	Macroscopic Properties of Disordered Media : Proceedings of a Conference held at the Courant Institute June 1-3, 1981 / Edited by R. Burridge, S. Childress and G. Papanicolaou
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Nota di contenuto	1. Introductory Chapter: Optical Interferometry in Interdisciplinary Applications 12 -- 2. Integrated Optics and Photonics for Optical Interferometric Sensing 66 -- 3. 2D Relative Phase Reconstruction in Plasma Diagnostics 52 -- 4. Bragg Grating Tuning Techniques for Interferometry Applications 24 -- 5. A Review of Optical Interferometry Techniques for Quantitative Determination of Optically Active Materials in a Solution 64 -- 6. Interferometric Gravitational Wave Detectors 18.
Sommario/riassunto	Optical interferometry has always been at the heart of interdisciplinary applications. For decades the subject has expanded from fundamental physics and astronomy projects to engineering and telecommunications studies. With the most recent technologies available, along with an extremely well-connected community ready to employ them, the application domain has advanced into other, less explored areas of research. The aim of this book is to review recent developments in OI techniques and aid readers in their exploration of different aspects of the subject. The focus of the novel reports presented in this volume ranges from traditional topics to newer applications, such as those related to biology and clinical procedures. Although this collection of articles is by no means exhaustive, efforts have been made to provide examples and discussions from as many different areas of this wide-ranging subject as possible.