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Descrizione fisica	1 online resource (668 p.)
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Soggetti	Transmission electron microscopy Electronic books.
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	CONTENTS; RECOMMENDED SYMBOLS, SIGN CONVENTIONS, AND ACRONYMS; CONTRIBUTORS; 1. IMAGING; 2. IMAGING THEORY; 3. ELASTIC SCATTERING OF ELECTRONS BY CRYSTALS; 4. ELASTIC-SCATTERING THEORY; 5. INELASTIC ELECTRON SCATTERING: PART I; 6. INELASTIC ELECTRON SCATTERING: PART II; 7. TECHNIQUES CLOSELY RELATED TO HIGH-RESOLUTION ELECTRON MICROSCOPY; 8. CALCULATION OF DIFFRACTION PATTERNS AND IMAGES FOR FAST ELECTRONS; 9. MINERALOGY; 10. SOLID-STATE CHEMISTRY; 11. MATERIALS SCIENCE: METALS, CERAMICS, AND SEMICONDUCTORS; 12. PRACTICAL HIGH-RESOLUTION ELECTRON MICROSCOPY; 13. SURFACES 14. HIGHLY DISORDERED MATERIALS INDEX
Sommario/riassunto	Provides an introduction to the fundamental concepts, techniques, and methods used for electron microscopy at high resolution in space, energy, and even in time. This book includes discussions of the theory and practice of image calculations, and applications of HRTEM to the study of solid surfaces, highly disordered materials, and more.