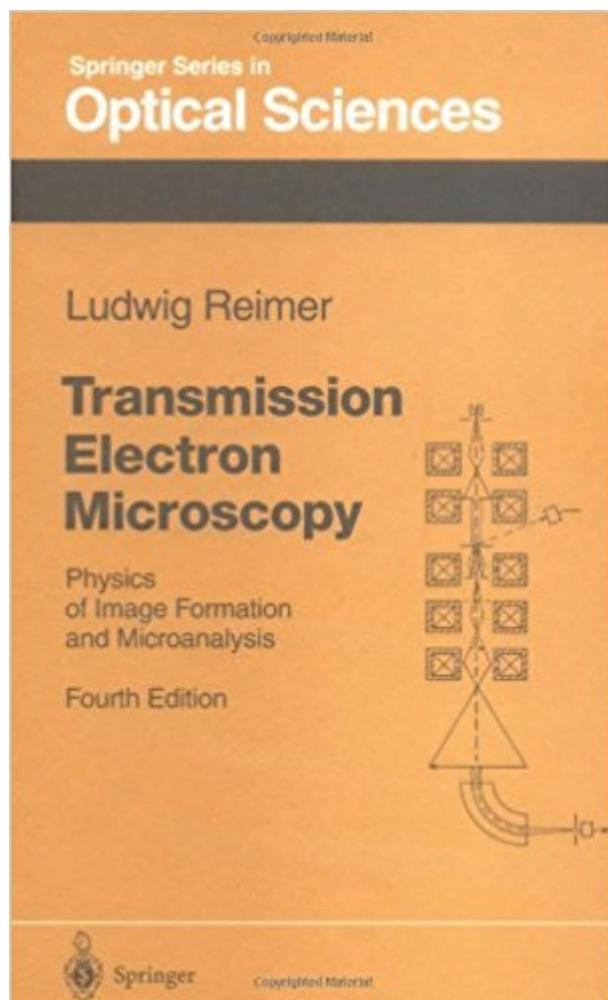


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Synopsis

Transmission Electron Microscopy presents the theory of image and contrast formation, and the analytical modes in transmission electron microscopy. The principles of particle and wave optics of electrons are described. Electron-specimen interactions are discussed for evaluating the theory of scattering and phase contrast. Also discussed are the kinematic and dynamical theories of electron diffraction and their applications for crystal-structure analysis and imaging of lattices and their defects. X-ray micronanalysis and electron energy-loss spectroscopy are treated as analytical methods. This fourth edition includes discussions of recent progress, especially in the area of Schottky emission guns, convergent-beam electron diffraction, electron tomography, holography and the high resolution of crystal lattices.

Book Information

Series: Springer Series in Optical Sciences, (Book 36)

Hardcover: 584 pages

Publisher: Springer; 4th edition (May 16, 1997)

Language: English

ISBN-10: 3540625682

ISBN-13: 978-3540625681

Product Dimensions: 6.5 x 1.2 x 9.5 inches

Shipping Weight: 2.3 pounds

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #2,580,855 in Books (See Top 100 in Books) #76 in Books > Science & Math > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy #377 in Books > Engineering & Transportation > Engineering > Reference > Measurements #1011 in Books > Medical Books > Basic Sciences > Cell Biology

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