



Peter Hawkes • Erwin Kasper

Principles of
Electron Optics
Volume One: Basic Geometrical Optics

Second Edition



Principles Of Electron Optics

J. R. W. Smith



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Principles of Electron Optics P. W. Hawkes, E. Kasper, Erwin Kasper, 1996 *Principles of Electron Optics, Volume 2* Peter W. Hawkes, Erwin Kasper, 2017-12-13 Principles of Electron Optics Applied Geometrical Optics Second Edition gives detailed information about the many optical elements that use the theory presented in Volume 1 electrostatic and magnetic lenses quadrupoles cathode lens based instruments including the new ultrafast microscopes low energy electron microscopes and photoemission electron microscopes and the mirrors found in their systems Wien filters and deflectors The chapter on aberration correction is largely new The long section on electron guns describes recent theories and covers multi column systems and carbon nanotube emitters Monochromators are included in the section on curved axis systems The lists of references include many articles that will enable the reader to go deeper into the subjects discussed in the text The book is intended for postgraduate students and teachers in physics and electron optics as well as researchers and scientists in academia and industry working in the field of electron optics electron and ion microscopy and nanolithography Offers a fully revised and expanded new edition based on the latest research developments in electron optics Written by the top experts in the field Covers every significant advance in electron optics since the subject originated Contains exceptionally complete and carefully selected references and notes Serves both as a reference and text *Principles of Electron Optics, Volume 3* Peter W. Hawkes, Erwin Kasper, 2022-02-21 Principles of Electron Optic Volume Three Wave Optics discusses this essential topic in microscopy to help readers understand the propagation of electrons from the source to the specimen and through the latter and from it to the image plane of the instrument In addition it also explains interference phenomena notably holography and informal coherence theory This third volume accompanies volumes one and two that cover new content on holography and interference improved and new modes of image formation aberration corrected imaging simulation and measurement 3D reconstruction and more The study of such beams forms the subject of electron optics which divides naturally into geometrical optics where effects due to wavelength are neglected with wave optics considered Includes authoritative coverage of the fundamental theory behind electron beams Describes the interaction of electrons with solids and the information that can be obtained from electron beam techniques Addresses recent relevant research topics including new content on holography and interference new modes of image formation 3D reconstruction and aberration corrected imaging simulation and measurement **Principles of Electron Optics, Volume 1** Peter W. Hawkes, Erwin Kasper, 2017-10-29 Volume one of Principles of Electron Optics Basic Geometrical Optics Second Edition explores the geometrical optics needed to analyze an extremely wide range of instruments cathode ray tubes the family of electron microscopes including the fixed beam and scanning transmission instruments the scanning electron microscope and the emission microscope electron spectrometers and mass spectrograph image converters electron interferometers and diffraction devices electron welding machines and electron beam lithography devices The book provides a self contained detailed modern account of electron

optics for anyone involved with particle beams of modest current density in the energy range up to a few mega electronvolts. You will find all the basic equations with their derivations, recent ideas concerning aberration studies, extensive discussion of the numerical methods needed to calculate the properties of specific systems, and guidance to the literature of all the topics covered. A continuation of these topics can be found in volume two, *Principles of Electron Optics Applied Geometrical Optics*. The book is intended for postgraduate students and teachers in physics and electron optics, as well as researchers and scientists in academia and industry working in the field of electron optics, electron and ion microscopy, and nanolithography. Offers a fully revised and expanded new edition based on the latest research developments in electron optics. Written by the top experts in the field. Covers every significant advance in electron optics since the subject originated. Contains exceptionally complete and carefully selected references and notes. Serves both as a reference and text. *Principles of Electron Optics*. P. W. Hawkes, E. Kasper, 1996. [Principles of Electron Optics](#) Peter W. Hawkes, Erwin Kasper, 2012-12-02. The three volumes in the PRINCIPLES OF ELECTRON OPTICS Series constitute the first comprehensive treatment of electron optics in over forty years. While Volumes 1 and 2 are devoted to geometrical optics, Volume 3 is concerned with wave optics and effects due to wave length. Subjects covered include: Derivation of the laws of electron propagation from Schrödinger's equation; Image formation and the notion of resolution; The interaction between specimens and electrons; Image processing; Electron holography and interference; Coherence, brightness, and the spectral function. Together these works comprise a unique and informative treatment of the subject. Volume 3 like its predecessors will provide readers with both a textbook and an invaluable reference source. **Principles of Electron Optics** P. W. Hawkes, E. Kasper, 1989. *Principles of Electron Optics* Peter W. Hawkes, 2017-12-08. **Principles of Electron Optics** Peter W. Hawkes, 1989. *Principles of Electron Optics* Peter W. Hawkes, Erich Kasper, 1996. **Principles of Electron Optics** Peter W. Hawkes, Erwin Kasper, 1989-01-28. This is a complete handbook and reference volume which covers everything that one needs to know about electron optics. It is a comprehensive coverage of theoretical background and modern computing methods. It contains a detailed and unique account of numerical methods and an extensive bibliography. [Principles of Electron Optics](#) Peter W. Hawkes, Erwin Kasper, 1989-01-28. This is a complete handbook and reference volume which covers everything that one needs to know about electron optics. It is a comprehensive coverage of theoretical background and modern computing methods. It contains a detailed and unique account of numerical methods and an extensive bibliography. **Principles of Electron Optics, Volume 4** Peter W. Hawkes, Erwin Kasper, 2022-05-10. *Principles of Electron Optics Second Edition Advanced Wave Optics* provides a self-contained modern account of electron optical phenomena with the Dirac or Schrödinger equation as a starting point. Knowledge of this branch of the subject is essential to understanding electron propagation in electron microscopes, electron holography, and coherence. Sections in this new release include: Electron Interactions in Thin Specimens; Digital Image Processing; Acquisition Sampling and Coding; Enhancement; Linear Restoration; Nonlinear Restoration; the Phase

Problem Three dimensional Reconstruction Image Analysis Instrument Control Vortex Beams The Quantum Electron Microscope and much more Includes authoritative coverage of many recent developments in wave electron optics Describes the interaction of electrons with solids and the information that can be obtained from electron beam techniques Includes new content on multislice optics 3D reconstruction Wigner optics vortex beams and the quantum electron microscope

Principles of electron optics Peter W. Hawkes,E. Kasper,1994 *Principles of Electron Optics: Basic geometrical optics* P. W. Hawkes,Erwin Kasper,1989 This is a complete handbook and reference volume which covers everything that one needs to know about electron optics It is a comprehensive coverage of theoretical background and modern computing methods It contains a detailed and unique account of numerical methods and an extensive bibliography *Principles of Electron Optics* Peter W. Hawkes,Erwin Kasper,1989 **Physical Principles of Electron Microscopy** Ray Egerton,2011-02-11 Scanning and stationary beam electron microscopes are indispensable tools for both research and routine evaluation in materials science the semiconductor industry nanotechnology and the biological forensic and medical sciences This book introduces current theory and practice of electron microscopy primarily for undergraduates who need to understand how the principles of physics apply in an area of technology that has contributed greatly to our understanding of life processes and inner space Physical Principles of Electron Microscopy will appeal to technologists who use electron microscopes and to graduate students university teachers and researchers who need a concise reference on the basic principles of microscopy *Physical Principles of Electron Microscopy* R.F. Egerton,2016-07-01 Scanning and stationary beam electron microscopes are indispensable tools for both research and routine evaluation in materials science the semiconductor industry nanotechnology and the biological forensic and medical sciences This book introduces current theory and practice of electron microscopy primarily for undergraduates who need to understand how the principles of physics apply in an area of technology that has contributed greatly to our understanding of life processes and inner space Physical Principles of Electron Microscopy will appeal to technologists who use electron microscopes and to graduate students university teachers and researchers who need a concise reference on the basic principles of microscopy *Principles of Electron Optics. Vol. 1-3* Peter W. Hawkes,E. Kasper,1994 This set is a reprint of the acclaimed three volume series Principles of Electron Optics which represents the first and only comprehensive treatment of electron optics in over forty years Each volume focuses on different aspects of Electron Optics but together these three volumes cover systematically the whole of the subject making this complete set an indispensable resource for anyone involved in the field of Optics Volumes One and Two are devoted to geometrical optics covering classical mechanics calculation of static fields the paraxial approximation aberrations deflection systems computer aided electro optics instrumental optic aberration correctionand beam intensity distribution electron guns and systems with a curved optic axis Volume Three covers wave optics and effects due to wave length and deals with wave mechanics electron interference and electron holography theory of image formation electron interactions in thin specimens digital image

processing and coherence brightness and spectral functions Together these three volumes comprise a resource which has been called the definitive text and source book in the field K C A Smith ROYAL MICROSCOPY SOCIETY REVIEW Key Features The most comprehensive coverage of the field in over forty years Contains extensive references and notes containing the contents of many of the major papers cited in the text Covers every significant advance in Electron Optics since the subject originated Exceptionally complete and carefully selected references

1. The Principles of Electron Optics. 2. Practical Measurements on a Bipotential Lens J. R. W. Smith, 1951

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