



Peter Hawkes • Erwin Kasper

# *Principles of* Electron Optics

Volume Two: Applied Geometrical Optics

Second Edition



# Principles Of Electron Optics Vol 2 Applied Geometrical Optics

**John Summerscales**



## **Principles Of Electron Optics Vol 2 Applied Geometrical Optics:**

**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: 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, Erich Kasper, 1996

**Principles of Electron Optics** P. W. Hawkes, E. Kasper, Erwin Kasper, 1996 *Microstructural Characterisation of Fibre-Reinforced Composites* John Summerscales, 1998-08-18 In the past 50 years great progress has been made in developing artificial fiber reinforced composite materials generally using filaments with microscopic diameters An array of reinforcement forms can be used in commercial applications with the microstructure being a critical factor in realizing the required properties in a material *Microstructural Characterisation of Fibre Reinforced Composites* comprehensively examines the application of advanced microstructural characterization techniques to fiber reinforced composites

*Charged Particle Optics Theory* Timothy R. Groves, 2017-12-19 *Charged Particle Optics Theory* An Introduction identifies the most important concepts of charged particle optics theory and derives each mathematically from the first principles of physics Assuming an advanced undergraduate level understanding of calculus this book follows a logical progression with each concept building upon the preceding one Beginning with a non mathematical survey of the optical nature of a charged particle beam the text Discusses both geometrical and wave optics as well as the correspondence between them Describes the two body scattering problem which is essential to the interaction of a fast charged particle with matter Introduces electron emission as a practical consequence of quantum mechanics Addresses the Fourier transform and

the linear second order differential equation Includes problems to amplify and fill in the theoretical details with solutions presented separately Charged Particle Optics Theory An Introduction makes an ideal textbook as well as a convenient reference on the theoretical origins of the optics of charged particle beams It is intended to prepare the reader to understand the large body of published research in this mature field with the end result translated immediately to practical application

*Atom-Probe Tomography* Michael K. Miller, Richard G. Forbes, 2014-07-31 Nanocharacterization by Atom Probe Tomography is a practical guide for researchers interested atomic level characterization of materials with atom probe tomography Readers will find descriptions of the atom probe instrument and atom probe tomography technique field ionization field evaporation and field ion microscopy The fundamental underlying physics principles are examined in addition to data reconstruction and visualization statistical data analysis methods and specimen preparation by electropolishing and FIB based techniques A full description of the local electrode atom probe a new state of the art instrument is also provided along with detailed descriptions and limitations of laser pulsing as a method to field evaporate atoms Valuable coverage of the new ionization theory is also included which underpins the overall technique *Principles of Electron Optics* Peter W. Hawkes, Erwin Kasper, 2012-12-02 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 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 *Springer Handbook of Microscopy* Peter W. Hawkes, John C.H. Spence, 2019-11-02 This book

features reviews by leading experts on the methods and applications of modern forms of microscopy The recent awards of Nobel Prizes awarded for super resolution optical microscopy and cryo electron microscopy have demonstrated the rich scientific opportunities for research in novel microscopies Earlier Nobel Prizes for electron microscopy the instrument itself and applications to biology scanning probe microscopy and holography are a reminder of the central role of microscopy in modern science from the study of nanostructures in materials science physics and chemistry to structural biology Separate chapters are devoted to confocal fluorescent and related novel optical microscopies coherent diffractive imaging scanning probe microscopy transmission electron microscopy in all its modes from aberration corrected and analytical to in situ and time resolved low energy electron microscopy photoelectron microscopy cryo electron microscopy in biology and also ion microscopy In addition to serving as an essential reference for researchers and teachers in the fields such as materials science condensed matter physics solid state chemistry structural biology and the molecular sciences generally the Springer Handbook of Microscopy is a unified coherent and pedagogically attractive text for advanced students who need an authoritative yet accessible guide to the science and practice of microscopy

**Advances in Imaging and Electron Physics**, 2018-06-15 Advances in Imaging and Electron Physics Volume 206 merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy The series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contains contributions from leading authorities on the subject matter Informs and updates on all the latest developments in the field of imaging and electron physics Provides practitioners interested in microscopy optics image processing mathematical morphology electromagnetic fields electrons and ion emission with a valuable resource Features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing

**The Principles and Practice of Electron Microscopy** Ian M. Watt, 1997-01-30 The first edition of this book was widely praised as an excellent introduction to electron microscopy for materials scientists physicists earth and biological scientists This completely revised new edition contains expanded coverage of existing topics and much new material The author presents the subject of electron microscopy in a readable way open both to those inexperienced in the technique and also to practising electron microscopists The coverage has been brought completely up to date whilst retaining descriptions of early classic techniques Currently live topics such as computer control of microscopes energy filtered imaging cryo and environmental microscopy digital imaging and high resolution scanning and transmission microscopy are all described The highly praised case studies of the first edition have been expanded to include some interesting new examples This indispensable guide to electron microscopy written by an author with thirty years practical experience will be invaluable to new and experienced electron microscopists in any area of

science and technology      **Charged-particle Optics** ,1996      **Handbook of Nanoscopy, 2 Volume Set** Gustaaf van Tendeloo,Dirk van Dyck,Stephen J. Pennycook,2012-05-21 This completely revised successor to the Handbook of Microscopy supplies in depth coverage of all imaging technologies from the optical to the electron and scanning techniques Adopting a twofold approach the book firstly presents the various technologies as such before going on to cover the materials class by class analyzing how the different imaging methods can be successfully applied It covers the latest developments in techniques such as in situ TEM 3D imaging in TEM and SEM as well as a broad range of material types including metals alloys ceramics polymers semiconductors minerals quasicrystals amorphous solids among others The volumes are divided between methods and applications making this both a reliable reference and handbook for chemists physicists biologists materials scientists and engineers as well as graduate students and their lecturers      *Aberration-corrected Imaging In Transmission Electron Microscopy: An Introduction (2nd Edition)* Rolf Erni,2015-03-23 Aberration Corrected Imaging in Transmission Electron Microscopy provides an introduction to aberration corrected atomic resolution electron microscopy imaging in materials and physical sciences It covers both the broad beam transmission mode TEM transmission electron microscopy and the scanning transmission mode STEM scanning transmission electron microscopy The book is structured in three parts The first part introduces the basics of conventional atomic resolution electron microscopy imaging in TEM and STEM modes This part also describes limits of conventional electron microscopes and possible artefacts which are caused by the intrinsic lens aberrations that are unavoidable in such instruments The second part introduces fundamental electron optical concepts and thus provides a brief introduction to electron optics Based on the first and second parts of the book the third part focuses on aberration correction it describes the various aberrations in electron microscopy and introduces the concepts of spherical aberration correctors and advanced aberration correctors including correctors for chromatic aberration This part also provides guidelines on how to optimize the imaging conditions for atomic resolution STEM and TEM imaging This second edition has been completely revised and updated in order to incorporate the very recent technological and scientific achievements that have been realized since the first edition appeared in 2010      *Quantum Mechanics of Charged Particle Beam Optics: Understanding Devices from Electron Microscopes to Particle Accelerators* Ramaswamy Jagannathan,Sameen Ahmed Khan,2019-05-20 Classical Charged Particle Beam Optics used in the design and operation of all present day charged particle beam devices from low energy electron microscopes to high energy particle accelerators is entirely based on classical mechanics A question of curiosity is How is classical charged particle beam optics so successful in practice though the particles of the beam like electrons are quantum mechanical Quantum Mechanics of Charged Particle Beam Optics answers this question with a comprehensive formulation of Quantum Charged Particle Beam Optics applicable to any charged particle beam device      Advanced Computing in Electron Microscopy Earl J. Kirkland,2020-03-09 This updated and revised edition of a classic work provides a summary of methods for numerical computation of high resolution

conventional and scanning transmission electron microscope images At the limits of resolution image artifacts due to the instrument and the specimen interaction can complicate image interpretation Image calculations can help the user to interpret and understand high resolution information in recorded electron micrographs The book contains expanded sections on aberration correction including a detailed discussion of higher order multipole aberrations and their effect on high resolution imaging new imaging modes such as ABF annular bright field and the latest developments in parallel processing using GPUs graphic processing units as well as updated references Beginning and experienced users at the advanced undergraduate or graduate level will find the book to be a unique and essential guide to the theory and methods of computation in electron microscopy     *Atomic-Scale Analytical Tomography* Thomas F. Kelly, Brian P. Gorman, Simon P. Ringer, 2022-03-24 A comprehensive guide on Atomic Scale Analytical Tomography ASAT that discusses basic concepts and implications of the technique in areas such as material sciences microscopy engineering sciences and several interdisciplinary avenues The title interrogates how to successfully achieve ASAT at the intersection of transmission electron microscopy and atom probe microscopy This novel concept is capable of identifying individual atoms in large volumes as well as in 3D with high spatial resolution Written by leading experts from academia and industry this book serves as a guide with real world applications on cutting edge research problems An essential reading for researchers engineers and practitioners interested in nanoscale characterisation this book introduces the reader to a new direction for atomic scale microscopy

**Advances in Imaging and Electron Physics** Peter W. Hawkes, 2003-12-02 The subjects reviewed in the Advances series cover a broad range of themes including microscopy electromagnetic fields and image coding Volume 128 concentrates on regularization a vital aspect of restoration on low voltage scanning electron microscopy This Book looks at theory and its application in a practical sense with a full account of the methods used and realistic detailed application The authors do this by examining the latest developments historic illustrations and mathematical fundamentals of the exciting developments in imaging and applying them to realistic practical situations The text bridges the gap between academic researchers and R D designers by addressing and solving daily issues which makes this book essential reading Emphasizes broad and in depth article collaborations between world renowned scientists in the field of image and electron physics Presents theory and its application in a practical sense providing long awaited solutions and new findings Bridges the gap between academic researchers and practitioners in industry     *Advanced Transmission Electron Microscopy* Jian Min Zuo, John C.H. Spence, 2016-10-26 This volume expands and updates the coverage in the authors popular 1992 book *Electron Microdiffraction* As the title implies the focus of the book has changed from electron microdiffraction and convergent beam electron diffraction to all forms of advanced transmission electron microscopy Special attention is given to electron diffraction and imaging including high resolution TEM and STEM imaging and the application of these methods to crystals their defects and nanostructures The authoritative text summarizes and develops most of the useful knowledge which has

been gained over the years from the study of the multiple electron scattering problem the recent development of aberration correctors and their applications to materials structure characterization as well as the authors extensive teaching experience in these areas Advanced Transmission Electron Microscopy Imaging and Diffraction in Nanoscience is ideal for use as an advanced undergraduate or graduate level text in support of course materials in Materials Science Physics or Chemistry departments



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