

# Advances In Imaging And Electron Physics Optics O

*Transmission Electron Microscopy* David B. Williams, C. Barry Carter. 2009-07-31 This profusely illustrated text on Transmission Electron Microscopy provides the necessary instructions for successful hands-on application of this versatile materials characterization technique. The new edition also includes an extensive collection of questions for the student, providing approximately 800 self-assessment questions and over 400 questions suitable for homework assignment.

**Advances in Imaging and Electron Physics** .2012-08-14 This special volume of *Advances in Imaging and Electron Physics* details the current theory, experiments, and applications of neutron and x-ray optics and microscopy for an international readership across varying backgrounds and disciplines. Edited by Dr. Ted Cremer, these volumes attempt to provide rapid assimilation of the presented topics that include neutron and x-ray scatter, refraction, diffraction, and reflection and their potential application. Contributions from leading authorities informs and updates on all the latest developments in the field

*Advances in Imaging and Electron Physics* Beate Meffert, Henning Harmuth. 2005-12-12 *Advances in Imaging and Electron Physics* merges two long-running serials - *Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. This series 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, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains.

**Aberration-corrected Imaging in Transmission Electron Microscopy** Rolf Erni. 2010 This book provides a concise introduction to practical aspects of atomic-resolution imaging in aberration-corrected electron microscopy. As such, it addresses recent advances in electron optical instrumentation used for ultra-high resolution imaging in materials and nano-science. It covers two of the most popular atomic resolution imaging techniques' namely high-resolution transmission electron microscopy and scanning transmission electron microscopy. The book bridges the gap between application-oriented textbooks in conventional electron microscopy and books in physics covering dedicated topics in charged-particle optics and aberration correction. The book is structured in three parts which can be read separately. While in the first part the fundamentals of the imaging techniques and their limits in conventional electron microscopes are explained, the second part provides readers with the basic principles of electron optics and the characteristics of electron lenses. The third part, focusing on aberrations, describes the functionality of aberration correctors and provides readers with practical guidelines for the daily work with aberration-corrected electron microscopes. The book represents a detailed and easy readable guide to aberration-corrected electron microscopy.

**Advances in Imaging and Electron Physics** .2012-10-22 This special volume of *Advances in Imaging and Electron Physics* details the current theory, experiments, and applications of neutron and x-ray optics and microscopy for an international readership across varying backgrounds and disciplines. Edited by Dr. Ted Cremer, these volumes attempt to provide rapid assimilation of the presented topics that include neutron and x-ray scatter, refraction, diffraction, and reflection and their potential application. Contributions from leading authorities informs and updates on all the latest developments in the field

*Particles and Waves in Electron Optics and Microscopy* .2016-05-27 *Advances in Imaging and Electron Physics* 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 all the latest developments in the field of imaging and electron physics Provides practitioners interested in microscopy, optics, image processing, mathematical morphology, electromagnetic fields, electron, 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

*Advances in Imaging and Electron Physics* P. W. Hawkes. 1995 This work features articles on the physics of electron devices, particle optics at high and low energies, microlithography, image science and digital image processing, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains.

**Advances in Imaging and Electron Physics** .2009-06-12 The invention of the electron microscope more than 70 years ago made it possible to visualize a new world, far smaller than anything that could be seen with the traditional microscope. The biologist could study viruses and the components of cells, the materials scientist could study the structure of metals and alloys and many other substances, and especially their defects. But even the electron microscope had limits, and truly atomic structure was still too small to be observed directly. The so-called limit of resolution of the microscope was well understood, but attempts to use the necessary correctors were unsuccessful until the late 1990s. Such correctors now equip many microscopes in Europe, the USA and Japan and the results are extremely impressive. Moreover, microscopists feel that they are only at the beginning of a new era of subatomic microscopic imaging. In the present volume, we have brought together the principal contributors, instrument designers and microscopists to discuss this topic in depth. \* First book on the subject of correctors \* Well known contributors from academia and microscope manufacturers \* Provides an ideal starting point for preparing funding proposals

*Advances in Imaging and Electron Physics* .2019-07-11 *Advances in Imaging and Electron Physics*, Volume 211, 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 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

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**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.

*Advances in Atomic, Molecular, and Optical Physics* .2012-10-18 *Advances in Atomic, Molecular, and Optical Physics* publishes reviews of recent developments in a field which is in a state of rapid growth, as new experimental and theoretical techniques are used on many old and new problems. Topics covered include related applied areas, such as atmospheric science, astrophysics, surface physics and laser physics. Articles are written by distinguished experts, and contain both relevant review material and detailed descriptions of important recent developments. International experts

Comprehensive articles New developments

*Advances in Imaging and Electron Physics* Peter W. Hawkes.2011-02-14 *Advances in Imaging and Electron Physics* merges two long-running serials--*Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. This series 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, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains. Contributions from leading international scholars and industry experts Discusses hot topic areas and presents current and future research trends Invaluable reference and guide for physicists, engineers and mathematicians

Selected Problems of Computational Charged Particle Optics Dmitry Greenfield,Mikhael Monastyrskii.2008-12-29 *Advances in Imaging and Electron Physics* merges two long-running serials--*Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. This series 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, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains. This monograph summarizes the authors' knowledge and experience acquired over many years in their work on computational charged particle optics. Its main message is that even in this era of powerful computers with a multitude of general-purpose and problem-oriented programs, asymptotic analysis based on perturbation theory remains one of the most effective tools to penetrate deeply into the essence of the problem in question.

Principles of Electron Optics Peter W. Hawkes,E. 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.

**Advances in Imaging and Electron Physics** Kevin Jensen.2007-11-26 *Advances in Imaging and Electron Physics* merges two long-running serials--*Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. This series 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, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains. This thematic volume is on the topic of Field-emission Source Mechanisms and is authored by Kevin Jensen, Naval Research Laboratory, Washington, DC.

**Geometrical Charged-Particle Optics** Harald Rose.2013-02-02 This second edition is an extended version of the first edition of *Geometrical Charged-Particle Optics*. The updated reference monograph is intended as a guide for researchers and graduate students who are seeking a comprehensive treatment of the design of instruments and beam-guiding systems of charged particles and their propagation in electromagnetic fields. Wave aspects are included in this edition for explaining electron holography, the Aharonov-Bohm effect and the resolution of electron microscopes limited by diffraction. Several methods for calculating the electromagnetic field are presented and procedures are outlined for calculating the properties of systems with arbitrarily curved axis. Detailed methods are presented for designing and optimizing special components such as aberration correctors, spectrometers, energy filters monochromators, ion traps, electron mirrors and cathode lenses. In particular, the optics of rotationally symmetric lenses, quadrupoles, and systems composed of these elements are discussed extensively. Beam properties such as emittance, brightness, transmissivity and the formation of caustics are outlined. Relativistic motion and spin precession of the electron are treated in a covariant way by introducing the Lorentz-invariant universal time and by extending Hamilton's principle from three to four spatial dimensions where the laboratory time is considered as the fourth pseudo-spatial coordinate. Using this procedure and introducing the self action of the electron, its accompanying electromagnetic field and its radiation field are calculated for arbitrary motion. In addition, the Stern-Gerlach effect is revisited for atomic and free electrons.

**Advances in Imaging and Electron Physics** .2011-06-11 *Advances in Imaging and Electron Physics* merges two long-running serials--*Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. This series 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, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains. Contributions from leading international scholars and industry experts Discusses hot topic areas and presents current and future research trends Invaluable reference and guide for physicists, engineers and mathematicians

*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

**Aberration Theory in Electron and Ion Optics** Peter W. Hawkes,Martin Hýtch.2023-06-02 *Advances in Imaging and Electron Physics, Volume 227* in the *Advances in Imaging and Electron Physics* series, merges two long-running serials, *Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. The series features 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. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the *Advances in Imaging and Electron Physics* series

**The Growth of Electron Microscopy** .1996-08-05 As a complement to *The Beginnings of Electron Microscopy*, *Advances in Imaging and Electron Physics* is pleased to present Volume 96, *The Growth of Electron Microscopy*. This comprehensive collection of articles surveys the accomplishments of various national groups that comprise the International Federation of Societies of Electron Microscopy (IFSEM).

Advances in Imaging and Electron Physics P. W. Hawkes.2007 *Advances in Imaging and Electron Physics* merges two long-running serials--*Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. This series 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, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains.

**Advances in Imaging and Electron Physics** Peter W. Hawkes.2011-08-08 *Advances in Imaging and Electron Physics* merges two long-running serials--*Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. This series 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, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains. Contributions

from leading international scholars and industry experts Discusses hot topic areas and presents current and future research trends Invaluable reference and guide for physicists, engineers and mathematicians

Quantum Aspects of Beam Physics Pisin Chen.2002-05-24 This proceedings volume records the advances in quantum beam physics since the first meeting in Monterey (1998). In addition to further progress regarding quantum effects in beam dynamics, photon–electron interaction in beam handling, beam phenomena under strong fields, and quantum methodologies in beam physics, the newly introduced topics — the physics of condensed beams as well as astro-beam physics and laboratory astrophysics — have also been well documented by world experts in the field. This book should be a valuable reference to those who are interested in the joint frontiers of beam physics and other fields such as astrophysics and condensed matter physics. Contents:Quantum Fluctuations in Beam Dynamics:Quantum Equation of Electron Motion (K-J Kim)Possible Quantum Mechanical Effects on Beam Echos (A Chao & B Nash)Photon-Electron Interaction in Beam Production, Cooling, Monitoring:Coherent Atom Optics with Bose-Einstein Condensates (K Bongs et al.)The Role of Quantum Mechanics in Neutrino Factories (J C Gallardo et al.)Beam Phenomena Under Strong EM Fields — Astro-Beam Physics and Laboratory Astrophysics:Relativistic Jets in Microquasars (F Mirabel)Is There Emmitted Radiation in the Unruh Effect? (B L Hu & A Raval)Quantum Methodologies in Beam Physics:Supersymmetry and Beam Dynamics (J D Bjorken & P Chen)Quantum Mechanical Formalism of Particle Beam Optics (S A Khan)and other papers Readership: Beam physicists as well as high energy, nuclear, atomic, astro and condensed matter physicists. Keywords:Quantum Aspects;Beam Physics;Monterey

Advances in Imaging and Electron Physics .2021-06-10 Advances in Imaging and Electron Physics, Volume 218 merges two long-running serials, Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy. The series features 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. Specific chapters in this release cover Phase retrieval methods applied to coherent imaging, X-ray phase-contrast imaging: a broad overview of some fundamentals, Graphene and borophene as nanoscopic materials for electronics - with review of the physics, and more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Imaging and Electron Physics series Updated release includes the latest information on the Coulomb Interactions in Charged Particle Beams

**Advances in Imaging and Electron Physics Including Proceedings CPO-10** .2019-10-12 Advances in Imaging and Electron Physics, Volume 212, 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 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

Handbook of Instrumentation and Techniques for Semiconductor Nanostructure Characterization Richard Haight,Frances M. Ross,James B. Hannon.2012 As we delve more deeply into the physics and chemistry of functional materials and processes, we are inexorably driven to the nanoscale. And nowhere is the development of instrumentation and associated techniques more important to scientific progress than in the area of nanoscience. The dramatic expansion of efforts to peer into nanoscale materials and processes has made it critical to capture and summarize the cutting-edge instrumentation and techniques that have become indispensable for scientific investigation in this arena. This Handbook is a key resource developed for scientists, engineers and advanced graduate students in which eminent scientists present the forefront of instrumentation and techniques for the study of structural, optical and electronic properties of semiconductor nanostructures.

**Advances in Imaging and Electron Physics** Henning Harmuth,Beate Meffert.2009-06-12 In this volume, the authors extend the calculus of finite differences to Dirac's equation. They obtain solutions for particles with negative mass that are completely equivalent to the solutions with positive mass. In addition, they obtain solutions for nuclear distances of the order of 10-13m and less rather than for the usual atomic distances. They report a number of other deviations from the differential theory, for instance they found a slight deviation in the eigenvalues of an electron in a Coulomb field, similar to the Lamb shift. In two sections some surprising results are shown for the concept of space caused by the replacement of dx by delta x.

Advances in Atomic, Molecular, and Optical Physics .2009-08-04 This volume continues the tradition of the Advances series. It contains contributions from experts in the field of atomic, molecular, and optical (AMO) physics. The articles contain some review material, but are intended to provide a comprehensive picture of recent important developments in AMO physics. Both theoretical and experimental articles are included in the volume. International experts Comprehensive articles New developments

**Electron Optics** O. Klemperer,M. E. Barnett.1971 This 1971 third edition of Dr Klemperer's Electron Optics is concerned primarily with the experimental aspects of electron optics.

**Surface Microscopy with Low Energy Electrons** Ernst Bauer.2014-07-10 This book, written by a pioneer in surface physics and thin film research and the inventor of Low Energy Electron Microscopy (LEEM), Spin-Polarized Low Energy Electron Microscopy (SPLEEM) and Spectroscopic Photo Emission and Low Energy Electron Microscopy (SPELEEM), covers these and other techniques for the imaging of surfaces with low energy (slow) electrons. These techniques also include Photoemission Electron Microscopy (PEEM), X-ray Photoemission Electron Microscopy (XPEEM), and their combination with microdiffraction and microspectroscopy, all of which use cathode lenses and slow electrons. Of particular interest are the fundamentals and applications of LEEM, PEEM, and XPEEM because of their widespread use. Numerous illustrations illuminate the fundamental aspects of the electron optics, the experimental setup, and particularly the application results with these instruments. Surface Microscopy with Low Energy Electrons will give the reader a unified picture of the imaging, diffraction, and spectroscopy methods that are possible using low energy electron microscopes.

**Advances in Imaging and Electron Physics** Peter William Hawkes.2004

Advances in Imaging and Electron Physics .2012-08-14 This special volume of Advances in Imaging and Electron Physics details the current theory, experiments, and applications of neutron and x-ray optics and microscopy for an international readership across varying backgrounds and disciplines. Edited by Dr. Ted Cremer, these volumes attempt to provide rapid assimilation of the presented topics that include neutron and x-ray scatter, refraction, diffraction, and reflection and their potential application. Contributions from leading authorities Informs and updates on all the latest developments in the field

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Advances in Imaging and Electron Physics .2013-03-28 Advances in Imaging and Electron Physics features cutting-edge articles on the physics of electron devices (especially semiconductor devices), particle optics at high and low energies, microlithography, image science and digital image processing, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains.

Advances in Imaging and Electron Physics Peter W. Hawkes.2002-10-31 Advances in Imaging and Electron Physics 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 and digital image

processing, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains.

**Transmission Electron Microscopy** Ludwig Reimer, Helmut Kohl. 2008-08-28 The aim of this monograph is to outline the physics of image formation, electron-specimen interactions, and image interpretation in transmission electron microscopy. Since the last edition, transmission electron microscopy has undergone a rapid evolution. The introduction of monochromators and improved energy filters has allowed electron energy-loss spectra with an energy resolution down to about 0.1 eV to be obtained, and aberration correctors are now available that push the point-to-point resolution limit down below 0.1 nm. After the untimely death of Ludwig Reimer, Dr. Koelsch from Springer-Verlag asked me if I would be willing to prepare a new edition of the book. As it had served me as a reference for more than 20 years, I agreed without hesitation. Distinct from more specialized books on specific topics and from books intended for classroom teaching, the Reimer book starts with the basic principles and gives a broad survey of the state-of-the-art methods, complemented by a list of references to allow the reader to find further details in the literature. The main objective of this revised edition was therefore to include the new developments but leave the character of the book intact. The presentation of the material follows the format of the previous edition as outlined in the preface to that volume, which immediately follows. A few derivations have been modified to correspond more closely to modern textbooks on quantum mechanics, scattering theory, or solid state physics.

*Principles of Electron Optics, Volume 3* Peter W. Hawkes, Erwin Kasper. 2022-02-21 Principles of Electron Optics: 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

*Advances in Imaging and Electron Physics*. 2020-05-21 Computer Techniques for Image Processing in Electron Microscopy, Volume 214 in the Advances in Imaging and Electron Physics series, presents the latest advances in the field, with this new volume covering Image Formation Theory, The Discrete Fourier Transform, Analytic Images, The Image and Diffraction Plane Problem: Uniqueness, The Image and Diffraction Plane Problem: Numerical Methods, The Image and Diffraction Plane Problem: Computational Trials, Alternative Data for the Phase Determination, The Hardware of Digital Image Handling, Basic Software or Digital Image Handling, Improc, and much more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Imaging and Electron Physics series

*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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