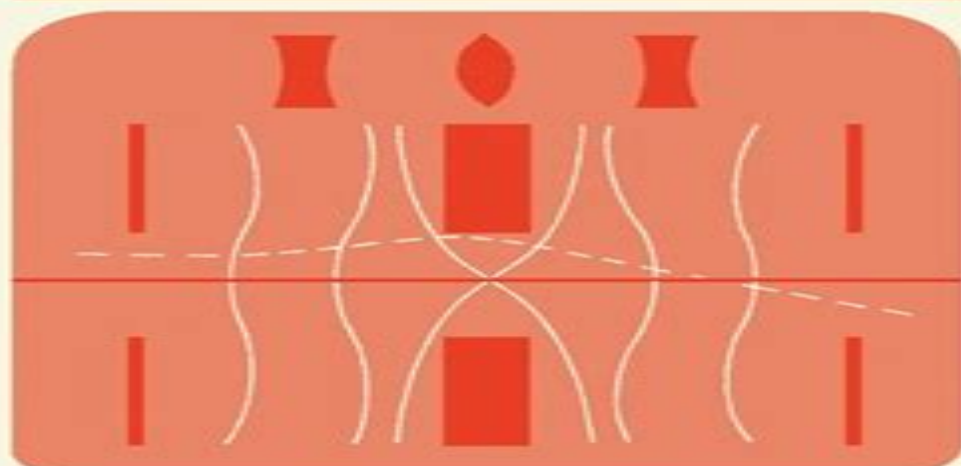

VOLUME 2

Electron Beams, Lenses, and Optics

**A. B. EL-KAREH
and J. C. J. EL-KAREH**



Electron Beams Lenses And Optics Volume 2

**Joseph Goldstein,Dale E.
Newbury,Patrick Echlin,David C.
Joy,Charles Fiori,Eric Lifshin**



Electron Beams Lenses And Optics Volume 2:

Electron Beams, Lenses, and Optics A. B. El-Kareh, J. C. J. El-Kareh, 2013-10-22 Electron Beams Lenses and Optics Volume 2 deals with the aberrations relating to electronic optics This book discusses the geometrical aberrations of lenses spherical aberration of electric and magnetic lenses and measurement of the spherical aberration of various electric and magnetic lenses The theory of diffraction influence of space charge in high density electron beams and chromatic aberration are also deliberated This publication likewise covers the classification of the geometrical aberrations derivation of the coefficient of spherical aberration according to Glaser and pepper pot method or Hartmann s test The Fraunhofers diffraction through a circular aperture force due to coulomb repulsion and upper limit of the chromatic aberration of magnetic lenses are also included This volume is valuable to industrial scientists and engineers concerned with electrostatic and magnetic lenses

Electron Beams, Lenses, and Optics A. B. El-Kareh, J. C. J. El-Kareh, 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

Electron Beams, Lenses, and Optics A El-Kareh, 2012-12-02 Electron Beams Lenses and Optics Volume I deals with the physics of electron beams lenses and optics and covers topics ranging from the paraxial ray in symmetrical electric fields to the analytical determination of electrostatic fields The general properties of electrostatic lenses and the electrostatic immersion lens are also considered Each equation except one is derived from first principles To emphasize the physics of the discussions elementary mathematics is used as much as possible Comprised of eight chapters this volume begins with an introduction to the laws that govern electron beams and light rays including Snell s law Some fundamental limitations to the analogy between electron optics and light optics are evaluated together with electron rays in plane symmetrical and in rotationally symmetrical fields Subsequent chapters explore the general properties of electrostatic lenses and electrostatic immersion lenses electrostatic unipotential

lenses and formation of optical images by rotationally symmetrical magnetic fields The final chapter is devoted to the symmetrical magnetic lens and its magnetic scalar potential paying particular attention to the flux density along the z axis and factors to consider in the design of the pole pieces This book will be of interest to students practitioners and researchers in physics

Electron Beams, Lenses, and Optics A. B. El-Kareh, J. C. J. El-Kareh, 1970 *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, 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

Nuclear Science Abstracts, 1976 **Principles of Analytical Electron Microscopy** Joseph Goldstein, David C. Joy, Alton D. Romig Jr., 2013-11-11 Since the publication in 1979 of Introduction to Analytical Electron Microscopy ed J J Hren J I Goldstein and D C Joy Plenum Press analytical electron microscopy has

continued to evolve and mature both as a topic for fundamental scientific investigation and as a tool for inorganic and organic materials characterization. Significant strides have been made in our understanding of image formation, electron diffraction, and beam-specimen interactions both in terms of the physics of the processes and their practical implementation in modern instruments. It is the intent of the editors and authors of the current text, *Principles of Analytical Electron Microscopy*, to bring together in one concise and readily accessible volume these recent advances in the subject. The text begins with a thorough discussion of fundamentals to lay a foundation for today's state of the art microscopy. All currently important areas in analytical electron microscopy, including electron optics, electron-beam-specimen interactions, image formation, x-ray microanalysis, energy-loss spectroscopy, electron diffraction, and specimen effects, have been given thorough attention. To increase the utility of the volume to a broader cross-section of the scientific community, the book's approach is in general more descriptive than mathematical. In some areas, however, mathematical concepts are dealt with in depth, increasing the appeal to those seeking a more rigorous treatment of the subject.

[Handbook of Charged Particle Optics](#) Jon Orloff, 2017-12-19

With the growing proliferation of nanotechnologies, powerful imaging technologies are being developed to operate at the sub-nanometer scale. The newest edition of a bestseller, the *Handbook of Charged Particle Optics*, Second Edition, provides essential background information for the design and operation of high-resolution, focused-probe instruments. The book's unique approach covers both the theoretical and practical knowledge of high-resolution probe-forming instruments. The second edition features new chapters on aberration correction and applications of gas-phase field ionization sources. With the inclusion of additional references to past and present work in the field, this second edition offers perfectly calibrated coverage of the field's cutting-edge technologies, with added insight into how they work. Written by the leading research scientists, the second edition of the *Handbook of Charged Particle Optics* is a complete guide to understanding, designing, and using high-resolution probe instrumentation.

[Industrial Ion Sources](#) Viacheslav V. Zhurin, 2012-09-19

Due to the large number of uses of ion sources in academia and industry, those who utilize these sources need up-to-date and coherent information to keep themselves abreast of developments and options and to choose ideal solutions for quality and cost effectiveness. This book, written by an author with a strong industrial background and excellent standing, is the comprehensive guide users and developers of ion sources have been waiting for. Providing a thorough refresher on the physics involved, this resource systematically covers the source types, components, and the operational parameters.

[Encyclopedia of Optical and Photonic Engineering \(Print\) - Five Volume Set](#) Craig Hoffman, Ronald Driggers, 2015-09-22

The first edition of the *Encyclopedia of Optical and Photonic Engineering* provided a valuable reference concerning devices or systems that generate, transmit, measure, or detect light, and to a lesser degree, the basic interaction of light and matter. This Second Edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published, but also boasts a wealth of new material, expanding the encyclopedia's length by 25 percent. Contains

extensive updates with significant revisions made throughout the text Features contributions from engineers and scientists leading the fields of optics and photonics today With the addition of a second editor the Encyclopedia of Optical and Photonic Engineering Second Edition offers a balanced and up to date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x ray optics to photon entanglement and beyond This edition s release corresponds nicely with the United Nations General Assembly s declaration of 2015 as the International Year of Light working in tandem to raise awareness about light s important role in the modern world Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

Introduction to Analytical Electron Microscopy John Hren, 2013-11-11 The birth of analytical electron microscopy AEM is somewhat obscure Was it the recognition of the power and the development of STEM that signaled its birth Was AEM born with the attachment of a crystal spectrometer to an otherwise conventional TEM Or was it born earlier with the first analysis of electron loss spectra It s not likely that any of these developments alone would have been sufficient and there have been many others microdiffraction EDS microbeam fabrication etc that could equally lay claim to being critical to the establishment of true AEM It is probably more accurate to simply ascribe the present rapid development to the obvious a combination of ideas whose time has come Perhaps it is difficult to trace the birth of AEM simply because it remains a point of contention to even define its true scope For example the topics in this book even though very broad are still far from a complete description of what many call AEM When electron beams interact with a solid it is well known that a bewildering number of possible interactions follow Analytical electron microscopy attempts to take full qualitative and quantitative advantage of as many of these interactions as possible while still preserving the capability of high resolution imaging Although we restrict ourselves here to electron transparent films much of what is described applies to thick specimens as well Not surprisingly signals from all possible interactions cannot yet and probably never will be attained simultaneously under optimum conditions

Encyclopedia of Electrochemical Power Sources Jürgen Garche, Chris K. Dyer, Patrick T. Moseley, Zempachi Ogumi, David A. J. Rand, Bruno Scrosati, 2013-05-20 The Encyclopedia of Electrochemical Power Sources is a truly interdisciplinary reference for those working with batteries fuel cells electrolyzers supercapacitors and photo electrochemical cells With a focus on the environmental and economic impact of electrochemical power sources this five volume work consolidates coverage of the field and serves as an entry point to the literature for professionals and students alike Covers the main types of power sources including their operating principles systems materials and applications Serves as a primary source of information for electrochemists materials scientists energy technologists and engineers Incorporates nearly 350 articles with timely coverage of such topics as environmental and sustainability considerations

Scanning Electron Microscopy and X-Ray Microanalysis Joseph Goldstein, Dale E. Newbury, Patrick Echlin, David C. Joy, Charles Fiori, Eric Lifshin, 2013-11-11 This book has evolved by processes of selection and expansion from its predecessor Practical Scanning Electron Microscopy

PSEM published by Plenum Press in 1975 The interaction of the authors with students at the Short Course on Scanning Electron Microscopy and X Ray Microanalysis held annually at Lehigh University has helped greatly in developing this textbook The material has been chosen to provide a student with a general introduction to the techniques of scanning electron microscopy and x ray microanalysis suitable for application in such fields as biology geology solid state physics and materials science Following the format of PSEM this book gives the student a basic knowledge of 1 the user controlled functions of the electron optics of the scanning electron microscope and electron microprobe 2 the characteristics of electron beam sample interactions 3 image formation and interpretation 4 x ray spectrometry and 5 quantitative x ray microanalysis Each of these topics has been updated and in most cases expanded over the material presented in PSEM in order to give the reader sufficient coverage to understand these topics and apply the information in the laboratory Throughout the text we have attempted to emphasize practical aspects of the techniques describing those instrument parameters which the microscopist can and must manipulate to obtain optimum information from the specimen Certain areas in particular have been expanded in response to their increasing importance in the SEM field Thus energy dispersive x ray spectrometry which has undergone a tremendous surge in growth is treated in substantial detail

Fusion Energy Update, 1981 INIS Atomindex, 1995 **Advanced Computing in Electron Microscopy** Earl J. Kirkland, 2010-08-12 Preface to Second Edition Several new topics have been added some small errors have been corrected and some new references have been added in this edition New topics include aberration corrected instruments scanning confocal mode of operations Bloch wave eigenvalue methods and parallel computing techniques The first edition included a CD with computer programs which is not included in this edition instead the associated programs will be available on an associated web site currently people.ccmr.cornell.edu/kirkland but may move as time goes on I wish to thank Mick Thomas for preparing the specimen used to record the image in Fig 5 26 and to thank Stephen P Meisburger for suggesting an interesting biological specimen to use in Fig 7 24 Again I apologize in advance for leaving out some undoubtedly outstanding references I also apologize for the as yet undiscovered errors that remain in the text Earl J Kirkland December 2009 Preface to First Edition Image simulation has become a common tool in HREM High Resolution Electron Microscopy in recent years However the literature on the subject is scattered among many different journals and conference proceedings that have occurred in the last two or three decades It is difficult for beginners to get started in this field

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Electron Beams Lenses And Optics Volume 2 Introduction

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