



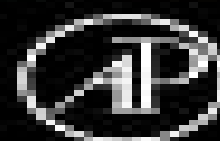
Volume One

Peter Hawkes • Erwin Kasper

Principles of Electron Optics

Basic Geometrical Optics

Second Edition



Electron Optics 2nd Edition

Pierre Grivet



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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 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 *Electron Optics* Pierre Grivet, 1972 **Electron Optics** P. Grivet, P. W. Hawkes, A. Septier, 2013-10-22 *Electron Optics Second English Edition Part I* Optics is a 10 chapter book that begins by elucidating the fundamental features and basic techniques of electron optics as well as the distribution of

potential and field in electrostatic lenses This book then explains the field distribution in magnetic lenses the optical properties of electrostatic and magnetic lenses and the similarities and differences between glass optics and electron optics Subsequent chapters focus on lens defects some electrostatic lenses and triode guns and magnetic lens models The strong focusing lenses and prism optics are also described This book will be useful to graduating students as well as to beginners who sometimes feel lost in the abundant specialized literature *Electron Optics* Pierre Grivet,1972 **Handbook of VLSI Microlithography, 2nd Edition** John N. Helbert,2001-04 This handbook gives readers a close look at the entire technology of printing very high resolution and high density integrated circuit IC patterns into thin resist process transfer coatings including optical lithography electron beam ion beam and x ray lithography The book s main theme is the special printing process needed to achieve volume high density IC chip production especially in the Dynamic Random Access Memory DRAM industry The book leads off with a comparison of various lithography methods covering the three major patterning parameters of line space resolution line edge and pattern feature dimension control The book s explanation of resist and resist process equipment technology may well be the first practical description of the relationship between the resist process and equipment parameters The basics of resist technology are completely covered including an entire chapter on resist process defectivity and the potential yield limiting effect on device production Each alternative lithographic technique and testing method is considered and evaluated basic metrology including optical scanning electron microscope SEM techniques and electrical test devices along with explanations of actual printing tools and their design construction and performance The editor devotes an entire chapter to today s sophisticated complex electron beam printers and to the emerging x ray printing technology now used in high density CMOS devices Energetic ion particle printing is a controllable steerable technology that does not rely on resist and occupies a final section of the handbook *Electron Optics* Pierre Grivet,2013 **Electron Optics** Pierre Grivet,1972 **Electron Optics** Pierre Grivet,1972 **Electron Optics.2nd Ed** O. Klemperer,1953 *Electron Optics ... Second Edition. [With a Bibliography.].* Otto Ernest Heinrich KLEMPERER,1953

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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

Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa United States. Bureau of Mines. Technical Library, Pittsburgh, 1968

Handbook of Microscopy Severin Amelinckx, 1997 *Theory and Design of Charged Particle Beams* Martin Reiser, 2008-09-26 Although particle accelerators are the book s main thrust it offers a broad synoptic description of beams which applies to a wide range of other devices such as low energy focusing and transport systems and high power microwave sources Develops material from first principles basic equations and theorems in a systematic way Assumptions and approximations are clearly indicated Discusses underlying physics and validity of theoretical relationships design

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