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# 42

P. W. Hawkes

Quadrupole Optics

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# Quadrupole Optics Springer Tracts Volume 42

**J. D. Lawson**



## **Quadrupole Optics Springer Tracts Volume 42:**

*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

**Principles of Electron Optics** Peter W. Hawkes, Erwin Kasper, 1996-04-24 **Principles of Electron Optics** **Springer Tracts in Modern Physics**, 1979 [Geometrical Charged-Particle Optics](#) Harald H. Rose, 2009 This resource covering all theoretical aspects of modern geometrical charged particle optics is aimed at anyone involved in the design of electron optical instruments and beam guiding systems for charged particles **NASA Technical Note**, 1971 [Catalog of Copyright Entries. Third Series](#) Library of Congress. Copyright Office, 1970 **Advances in Electronics and Electron Physics**, 1986-10-30 **Advances in Electronics and Electron Physics** **The Encyclopedia of Physics** Robert Besancon, 2013-11-11 **Springer Tracts in Modern Physics** Gerhard H hler, 1973 [Application of Monte Carlo Techniques to Optimization of High-energy Beam Transport in a Stochastic Environment](#) Russell V. Parrish, James E. Dieudonne, Tassos A. Filippas, 1971 An algorithm employing a modified sequential random perturbation or creeping random search was applied to the problem of optimizing the parameters of a high energy beam transport system The stochastic solution of the mathematical model for first order magnetic field expansion allows the inclusion of state variable constraints and the inclusion of parameter constraints allowed by the method of algorithm application eliminates the possibility of infeasible solutions The mathematical model and the algorithm were programmed for a real time simulation facility thus two important features are provided to the beam designer 1 a strong degree of man machine communication even to the extent of bypassing the algorithm and applying analog matching

techniques and 2 extensive graphics for displaying information concerning both algorithm operation and transport system behavior Chromatic aberration was also included in the mathematical model and in the optimization process Results presented show this method as yielding better solutions in terms of resolutions to the particular problem than those of a standard analog program as well as demonstrating flexibility in terms of elements constraints and chromatic aberration allowed by user interaction with both the algorithm and the stochastic model Example of slit usage and a limited comparison of predicted results and actual results obtained with a 600 MeV cyclotron are given

Electron Microscopy In Material Science U Valdre,2012-12-02 Electron Microscopy in Material Science covers the proceedings of the International School of Electron Microscopy held in Erice Italy in 1970 The said conference is intended to the developments of electron optics and electron microscopy and its applications in material science The book is divided into four parts Part I discusses the impact of electron microscopy in the science of materials Part II covers topics such as electron optics and instrumentation geometric electron optics and its problems and special electron microscope specimen stages Part III explains the theory of electron diffraction image contrast and then elaborates on related areas such as the application of electron diffraction and of electron microscopy to radiation computing methods and problems in electron microscopy Part IV includes topics such as the transfer of image information in the electron microscope phase contrast microscopy and the magnetic phase contrast The text is recommended for electron microscopists who are interested in the application of their field in material science as well as for experts in the field of material science and would like to know about the importance of electron microscopy

**Magnetic Electron Lenses** P.W. Hawkes,2013-11-11 No single volume has been entirely devoted to the properties of magnetic lenses so far as I am aware although of course all the numerous textbooks on electron optics devote space to them The absence of such a volume bringing together information about the theory and practical design of these lenses is surprising for their introduction some fifty years ago has created an entirely new family of commercial instruments ranging from the now traditional transmission electron microscope through the reflection and transmission scanning microscopes to columns for micromachining and microlithography not to mention the host of experimental devices not available commercially It therefore seemed useful to prepare an account of the various aspects of magnetic lens studies These divide naturally into the five chapters of this book the theoretical background in which the optical behaviour is described and formulae given for the various aberration coefficients numerical methods for calculating the field distribution and trajectory tracing extensive discussion of the paraxial optical properties and aberration coefficients of practical lenses illustrated with curves from which numerical information can be obtained a complementary account of the practical engineering aspects of lens design including permanent magnet lenses and the various types of superconducting lenses and finally an up to date survey of several kinds of highly unconventional magnetic lens which may well change the appearance of future electron optical instruments very considerably after they cease to be unconventional

**Quadrupole Optics** P. W. Hawkes,2006-04-11

**Coherent Electron Microscopy: Designing Faster and Brighter Electron Sources** Peter W. Hawkes, Martin Hÿtch, 2023-08-17 Coherent Electron Microscopy Designing Faster and Brighter Electron Sources 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 Chapters in this new release cover Characterization of nanomaterials properties using FE TEM Cold field emission electron sources From higher brightness to ultrafast beams Every electron counts Towards the development of aberration optimized and aberration corrected electron sources and more 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     **Beam Optics of Quadruple Probe-Forming Systems**, Geoff W. Grime, Frank Watt, 1984

**Quadrupoles in Electron Lens Design** Martin Hÿtch, Peter W. Hawkes, 2022-11-23 Coulomb Interactions in Particle Beams Volume 223 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 computing methods used in all these domains with this release exploring Coulomb Interactions in Particle Beams 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 Coulomb Interactions in Particle Beams     **Catalog of Copyright Entries. Fourth Series** Library of Congress. Copyright Office, 1967     *Design Considerations for a Wide-band Oscilloscope Tube with Scan Magnification* Erich Eduard Himmelbauer, 1969     **Materials Analysis Using a Nuclear Microprobe** Mark B. H. Breese, David N. Jamieson, Philip J. C. King, 1996-02-12 Along with in depth coverage of the various processes involved in nuclear microscopy and ion solid interactions the book explores nuclear microprobe hardware in detail examines various applications of nuclear microprobes for materials analysis and considers all experimental aspects of using these new analytical methods     **The Physics of Charged-particle Beams** J. D. Lawson, 1988

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