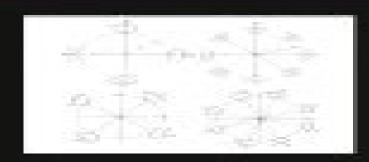
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Volume 224

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Handbook Of Accelerator Physics And Engineering (Third Edition) Alexander Wu Chao, Maury Tigner, Hans Weise, Frank Zimmermann, 2023-02-02 Edited by internationally recognized authorities in the field this expanded and updated new edition of the bestselling Handbook containing many new articles is aimed at the design and operation of modern particle accelerators. It is intended as a vade mecum for professional engineers and physicists engaged in these subjects. With a collection of more than 2000 equations 300 illustrations and 500 graphs and tables here one will find in addition to common formulae of previous compilations hard to find specialized formulae recipes and material data pooled from the lifetime experience of many of the world's most able practioners of the art and science of accelerators. The seven chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types Chapters on beam dynamics and electromagnetic and nuclear interactions deal with linear and nonlinear single particle and collective effects including spin motion beam environment beam beam beam electron beam ion and intrabeam interactions. The impedance concept and related calculations are dealt with at length as are the instabilities due to the various interactions mentioned A chapter on operational considerations including discussions on the assessment and correction of orbit and optics errors realtime feedbacks generation of short photon pulses bunch compression phase space exchange tuning of normal and superconducting linacs energy recovery linacs free electron lasers cryogenic vacuum systems steady state microbuching cooling space charge compensation brightness of light sources collider luminosity optimization and collision schemes

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many of the world's most able practitioners of the art and science of accelerator building and operation 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 in formation 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 co lumns for micromachining and microlithography not to mention the host of experi mental devices not available commercially It therefore seemed useful to prepare an account of the various aspects of mag netic 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 il lustrated with curves from which numerical information can be obtained a comple mentary account of the practical engineering aspects of lens design including permanent magnet lenses and the various types of superconducting lenses and final ly 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 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 Nuclear Science Abstracts .1976 Scientific and Technical Aerospace Reports, 1994-05 Science of Microscopy P.W. Hawkes, John C.H. Spence, 2008-08-29 This fully corrected second impression of the classic 2006 text on microscopy runs to more than 1 000 pages and covers up to the minute developments in the field The two volume work brings together a slew of

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Harrer, James G. Beckerley, 1973 Principles of Charged Particle Acceleration Stanley Humphries, 2013-09-11 This authoritative text offers a unified programmed summary of the principles underlying all charged particle accelerators it also doubles as a reference collection of equations and material essential to accelerator development and beam applications The only text that covers linear induction accelerators the work contains straightforward expositions of basic principles rather than detailed theories of specialized areas 1986 edition

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