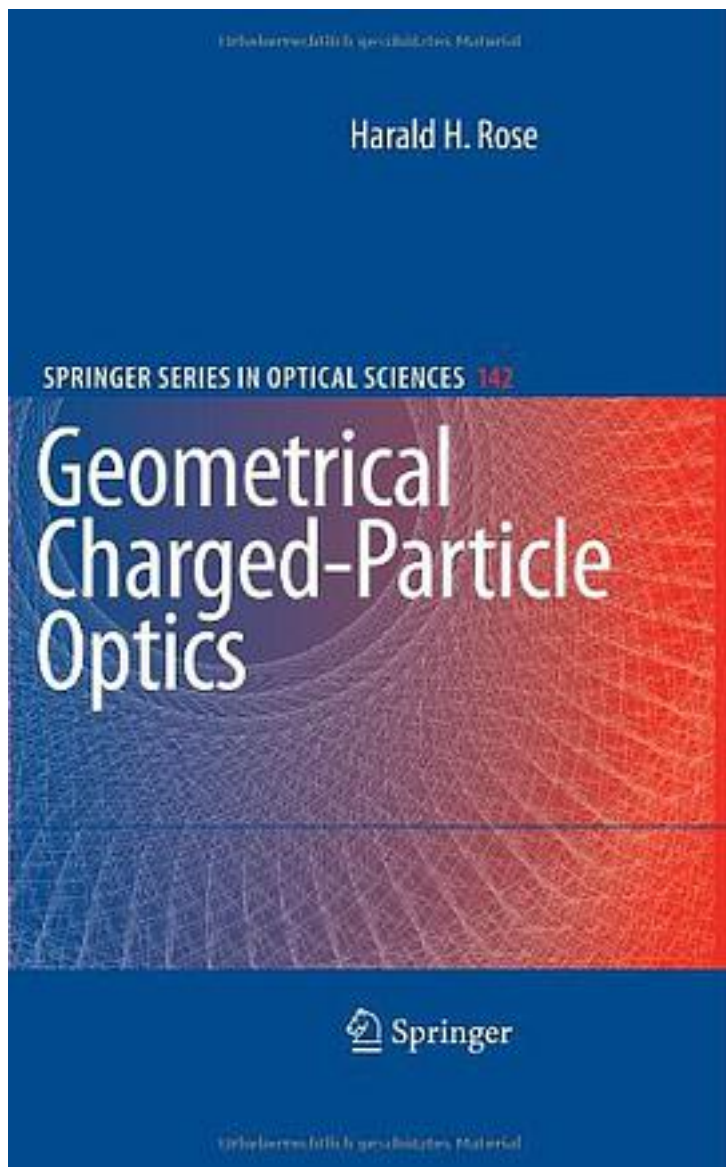


Geometrical Charged-Particle Optics



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The book covers all theoretical aspects of modern geometrical charged particle optics. It is intended as a textbook for graduate student and as a guide for researchers, who are involved in the design of electron optical instruments and beam-guiding systems for charged particles. Procedures for calculating the properties of systems with arbitrarily curved axis are outlined in detail and methods are discussed for designing and optimizing special components such as aberration corrector, spectrometers, energy filters, monochromator, ion traps, electron mirrors and cathodes. The design of novel electron optical components enabling sub-Angstroem spatial resolution and sub-0.1eV energy resolution are discussed. Relativistic motion and spin precession of the electron is treated in a concise way by employing a covariant five-dimensional procedure.

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