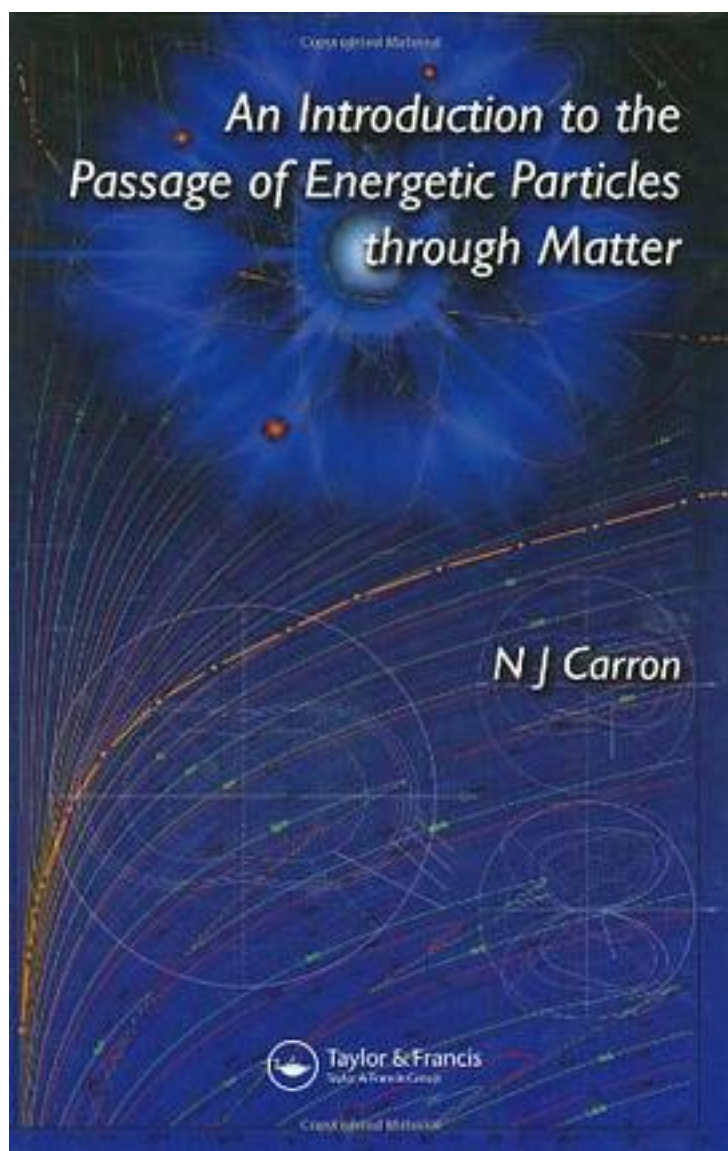


An Introduction to the Passage of Energetic Particles Through Matter



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Identifying where to access data, extracting a needed subset from available resources, and knowing how to interpret the format in which data are presented can be time-consuming tasks for scientists and engineers. By collecting all of this information and providing a background in physics, "An Introduction to the Passage of Energetic Particles through Matter" enables specialists and non-specialists alike to understand and apply the data. Making modern data more accessible, this book explores the interactions with matter of energetic particles, including photons, electrons, protons, alpha particles, and neutrons. It presents quantities of interest in many applications, such as photon and neutron cross sections, charged particle stopping powers, electron mean ranges, and angular distributions. This book also discusses electron multiple scattering and models for electron mean range against both stopping power and scattering. The author uses numerous graphs throughout the book to illustrate the material and describes the basic physics underlying all processes. The accompanying CD-ROM includes full datasets and large color contour graphs of cross sections, stopping powers, and ranges in all elements at all interesting energies. Compiling information that is scattered throughout the literature, "An Introduction to the Passage of Energetic Particles through Matter" provides a comprehensive foundation of particle interactions that is of prime importance to many areas of applied physics and supplies an introduction to the massive, invaluable Evaluated Nuclear Data File (ENDF) library.

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目录:

[An Introduction to the Passage of Energetic Particles Through Matter_ 下载链接1](#)

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