



X-Ray Compton Scattering (Oxford Series on Synchrotron Radiation)

Malcolm Cooper, Peter Mijnaerends, Nobuhiro Shiotani, Nobuhiko Sakai, Arun Bansil

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With the development of potent x-ray sources at many synchrotron laboratories worldwide, Compton scattering has become a standard tool for studying electron densities in materials. This book provides condensed matter and materials physicists with an authoritative, up-to-date, and very accessible account of the Compton scattering method, leading to a fundamental understanding of the electrical and magnetic properties of solid materials. The spectrum of Compton scattered x-rays is particularly sensitive to this behaviour and thus can be used as a direct probe and to test the predictions of theory. The current generation of synchrotron facilities allows this method to be readily exploited to study the ground state electron density in both elements and in complex compounds. It is important that those working in related fields, as well as the increasing number directly using the Compton method, have a comprehensive assessment of what is now possible and how to achieve it, in addition to a full understanding of its theoretical basis. This monograph is unique and timely, since little of what is described, was practicable a decade ago. The development of synchrotron radiation facilities has ensured that the technique described here will remain a powerful probe of electron charge and spin density for many years to come.

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