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Knowledge of the dynamics of many-electron systems is of fundamental importance to all disciplines of condensed matter physics. A very effective access to electron dynamics is offered by inelastic X-ray scattering (IXS) spectroscopy. The double differential scattering cross section for IXS is directly related to the time-dependent two-particle density correlation function, and, for large momentum and energy transfer (Compton limit) to the electron momentum distribution. Moreover, resonant inelastic X-ray scattering (RIXS) enables the study of electron dynamics via electronic excitations in a very selective manner (e.g. selectively spin, crystal momentum, or symmetry), so that other methods are efficaciously complemented. The progress of IXS spectroscopy is intimately related to the growing range of applications of synchrotron radiation. The aim of the book is to provide the growing community of researchers with accounts of experimental methods, instrumentation, and data analysis of IXS, with representative examples of successful applications, and with the theoretical framework for interpretations of the measurements.



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About the Author

Winfried Schülke
Professor Emeritus
Institute of Physics
University Dortmund
Germany

1959-1966 Scientific Assistant, Institute of Experimental Physics, Martin-Luther-University, Halle/Saale, GDR

1966-1975 Head Assistant, Section of Physics, Martin-Luther-University, Halle/Saale, GDR

1975-1977 Scientist at the Institute of Physics, University of Dortmund

1977-1980 Assistant Professor of Physics, University of Dortmund

1980-2001 Full Professor of Physics, University of Dortmund

2001- Present Professor Emeritus, University of Dortmund

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