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Excitations in Condensed Matter Systems -- High-resolution Photoemission Spectroscopy of Solids Using Synchrotron Radiation -- Low-Dimensional Systems -- Photoemission on Quasi-One-Dimensional Solids: Peierls, Luttinger & Co. -- Atomic Chains at Surfaces -- Ultimate Resolution -- High-Resolution Photoemission Spectroscopy of Low-T c Superconductors -- Molecules -- Very-High-Resolution Laser Photoelectron Spectroscopy of Molecules -- High-Temperature Superconductors and Transition-Metal Oxides -- Doping Evolution of the Cuprate Superconductors from High-Resolution ARPES -- Many-Body Interaction in Holeand Electron-Doped High-T c Cuprate Superconductors -- Dressing of the Charge Carriers in High-T c Superconductors -- High-Resolution Photoemission Spectroscopy of Perovskite-Type Transition-Metal Oxides -- High Energy and High Resolution -- High-Resolution High-Energy Photoemission Study of Rare-Earth Heavy Fermion Systems -- Hard X-Ray Photoemission Spectroscopy.

Sommario/riassunto

Photoemission spectroscopy is one of the most extensively used methods to study the electronic structure of atoms, molecules, and solids and their surfaces. The present volume introduces and surveys the field at highest energy and momentum resolutions allowing for a new range of applications, in particular for studies of high temperature superconductors. This book will be a valuable tool for anyone wishing to get acquainted with the state of the art in the field.