Record Nr. UNINA9910132151703321

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Titolo Nonrelativistic quantum x-ray physics / / Stefan P. Hau-Riege

Pubbl/distr/stampa Weinheim, Germany:,: Wiley,, [2015]

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ISBN 3-527-66452-1

3-527-66449-1 3-527-66451-3

Descrizione fisica 1 online resource (570 p.)

Disciplina 539.7222

Soggetti Quantum theory

Mechanics X-rays

Mathematical physics

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Note generali Description based upon print version of record.

Nota di bibliografia Includes bibliographical references and index.

Nota di contenuto Cover; Related Titles; Title Page; Copyright; Dedication; Preface; Part 1:

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Particle in a Radially Symmetric Potential; 2.6 Mixed States

2.7 Schrodinger and Heisenberg Pictures of Quantum Mechanics 2.8 Representing Quantum Mechanics in Position and Momentum Space; 2.9 Transition from Classical Mechanics to Quantum Mechanics; 2.10 Molecular Orbital Approximation; Part II: Quantization of the Free

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Sommario/riassunto

Providing a solid theoretical background in photon-matter interaction, Nonrelativistic Quantum X-Ray Physics enables readers to understand experiments performed at XFEL-facilities and x-ray synchrotrons. As a result, after reading this book, scientists and students will be able to outline and perform calculations of some important x-ray-matter interaction processes. Key features of the contents are that the scope reaches beyond the dipole approximation when necessary and that it includes short-pulse interactions. To aid the reader in this transition, some relevant examples are discussed in