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Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Related Titles; Title Page; Copyright; Dedication; Preface; Part 1: Introduction; Chapter 1: Introduction; 1.1 Motivation; 1.2 Comparing X-Rays with Optical Radiation; 1.3 Novel X-Ray Sources; 1.4 Unit Systems; 1.5 Overview of Lagrangian and Hamiltonian Mechanics; 1.6 Approximations; Chapter 2: Review of Some Concepts in Quantum Mechanics; 2.1 Introduction; 2.2 Dirac's Bra-Ket (Bracket) Notation; 2.3 Eigenvalues and Eigenfunctions; 2.4 Functions of Operators; 2.5 Point 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 Electromagnetic Field; Chapter 3: Classical Electromagnetic Fields; 3.1 Introduction; 3.2 Maxwell's Equations; 3.3 Electromagnetic Potentials; 3.4 Transverse and Longitudinal Maxwell's Equations; 3.5 The Free Electromagnetic Field as a Sum of Mode Oscillators 3.6 Charged Particle in an Electromagnetic Field and the Minimal-Coupling Hamiltonian Chapter 4: Harmonic Oscillator; 4.1 Introduction;

4.2 Classical Harmonic Oscillator with One Degree of Freedom; 4.3 Quantum Mechanical Harmonic Oscillator; 4.4 N-Dimensional Quantum Mechanical Harmonic Oscillator; Chapter 5: Quantization of the Electromagnetic Field; 5.1 Introduction; 5.2 Transition to a Quantum Mechanical Description; 5.3 Photon Number States (hucFock States); 5.4 Photons; Chapter 6: Continuous Fock Space; 6.1 Introduction; 6.2 Three-Dimensional Continuum Field; 6.3 One-Dimensional Treatment Chapter 7: Coherence 7.1 Introduction; 7.2 Review of Classical Coherence Theory; 7.3 Quantum Coherence Theory; Chapter 8: Examples for Electromagnetic States; 8.1 Introduction; 8.2 Quantum Phase of Radiation Fields; 8.3 Single-Mode States; 8.4 Multimode States; 8.5 One-Dimensional Continuum Mode States; Part III: Interaction of X-Rays with Matter; Chapter 9: Interaction of the Electromagnetic Field with Matter; 9.1 Introduction; 9.2 Tensor Product of Matter and Radiation Hilbert Spaces; 9.3 Interaction Hamiltonian for the Electromagnetic Field and Matter Chapter 10: Time-Dependent Perturbation Theory 10.1 Introduction; 10.2 Interaction Picture; 10.3 Transition Probabilities; 10.4 Perturbative Expansion of Transition Amplitudes; 10.5 Time-Dependent Perturbation Theory for Mixed States; Chapter 11: Application of Perturbation Theory to the Interaction of Electromagnetic Fields with Matter; 11.1 Introduction; 11.2 Feynman Diagrams; 11.3 Mixed States; Part IV: Applications of X-Ray-Matter-Interaction Theory; Chapter 12: X-Ray Scattering by Free Electrons; 12.1 Introduction; 12.2 Energy and Momentum Conservation; 12.3 Scattering Cross Section 12.4 Scattering From an Electron at Rest

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

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| 2. | Record Nr. | UNICAMPANIAVAN00076117 |
| | Autore | Perrucci, Andrea |
| | Titolo | A treatise on acting : from memory and by improvisation (1699) / by Andrea Perrucci ; translated and edited by Francesco Cotticelli ... [et al.] |
| | Pubbl/distr/stampa | Lanham, : Scarecrow, 2008 |
| | ISBN | 978-08-10-86033-9 |
| | Descrizione fisica | XX, 232 p. ; 28 cm. |
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Inglese |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
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| 3. | Record Nr. | UNIORUON00052554 |
| | Autore | PIKULIN, Mixail Grigor'evic |
| | Titolo | Beludzi / M. G. Pikulin |
| | Pubbl/distr/stampa | Moskva, : Izd. Vostocnoj Literatury, 1959 |
| | Descrizione fisica | 211 p. ; 22 cm |
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| | Soggetti | PAKISTAN - CULTURA E CIVILTA' |
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