



Optical Interactions in Solids

By B.Di Bartolo

2014. Soft cover. Book Condition: New. 1st Edition. Preface to the Second Edition 1. Elements of Quantum Mechanics 1. Review of Classical Mechaaics 2. Vector Spaces and Linear Operators 3. Basic Postulates of Quantum Mechanics 4. Compatible Observables and Complete Set of Commuting Operators 5. Form of the Operators 6. Matrix Formalism and Transformation Theory 7. General Theory of Angular Momentum 8. Time-Independent Perturbation Theory 9. Time-Dependent Perturbation Theory References 2. Elements of Group Theory 1. Properties of a Group 2. Classes 3. Theory of Representations 4. Schur's Lemma and Orthogonality Relations 5. Characters of a Group 6. Properties of the Irreducible Representations of a Group 7. The Direct Product Representation 8. Product Groups and Their Representations 9. Summary of Rules 10. Groups of Real Orthogonal Matrices 11. Space Groups and Symmetry of Crystalline Solids 12. The Irreducible Representations of a Group of Primitive Translations 13. The Irreducible Representations of Space Groups References 3. Connection of Quantum Mechanics with Group Theory 1. The Effect of an Orthogonal Coordinate Transformation on the Vectors of a Hilbert Space 2. The Symmetry Group of the SchrSdinger Equation 3. The Fundamental Theorem for Functions and Operators Transforming Irreducibly 4. The Construction of Functions Transforming...



READ ONLINE
[2.96 MB]

Reviews

Very beneficial for all type of folks. It can be rally intriguing throug studying time. You will like how the writer publish this ebook.

-- **Nathan Cruickshank**

Totally one of the better pdf I have at any time read through. It really is simplified but shocks within the 50 % from the ebook. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Mariano Spinka**