



## **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...



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