



Applied Group Theory: Selected Readings in Physics

Arthur P. Cracknell

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Selected Readings in Physics: Applied Group Theory provides information pertinent to the fundamental aspects of applied group theory. This book discusses the properties of symmetry of a system in quantum mechanics.

Organized into two parts encompassing nine chapters, this book begins with an overview of the problem of elastic vibrations of a symmetric structure. This text then examines the numbers, degeneracies, and symmetries of the normal modes of vibration. Other chapters consider the conditions under which a polyatomic molecule can have a stable equilibrium configuration when its electronic state has orbital degeneracy. This book discusses as well the effect of an electric field having a given symmetry upon an atom. The final chapter deals with the symmetry of crystals with a magnetic moment.

This book is intended to be suitable for final-year students and fresh postgraduate students in physics. Physicists and researcher workers will also find this book extremely useful.

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