



## Group Theory and its Applications (Hardback)

By Prasanta Kumar Patra, Ram Kumar Thapa

Alpha Science International Ltd, United Kingdom, 2019. Hardback. Condition: New. Language: English . Brand New Book. GROUP THEORY AND ITS APPLICATIONS explains in detail how to determine the symmetry operations and symmetry elements of different molecules and then goes on to present how to determine the character tables of different groups with examples illustrating the procedure in full detail. Group theory is an abstract mathematical tool that underlies the study of symmetry and invariance. By using the concepts of symmetry and group theory, it is possible to obtain the members of complete set of known basis functions of the various irreducible representations of the group. In practice this is achieved by applying the projection operators to the linear combinations of atomic orbital (LCAO) when the valence electrons are tightly bound to the ions, to orthogonalized plane waves (OPW) when valence electrons are nearly free and to the other given functions that are suitable to a particular system under consideration. In solid state physics, the group theory is indispensable in the context of finding the energy bands of electrons in solids. It can also be applied to electron emission spectroscopy to derive basis functions by projection operator method to calculate currents...

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