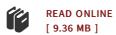# Group Theoretical Methods and Applications to Molecules and Crystals

By Shoon K. Kim

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2005. Paperback. Book Condition: New. Revised ed.. 226 x 152 mm. Language: English Brand New Book ***** Print on Demand *****.This book explains the basic aspects of symmetry groups as applied to problems in physics and chemistry using an approach pioneered and developed by the author. The symmetry groups and their representations are worked out explicitly, eliminating the undue abstract nature of group theoretical methods. The author has systemized the wealth of knowledge on symmetry groups that has accumulated in the century since Fedrov discovered the 230 space groups. All space groups, unitary as well as antiunitary, are reconstructed based on the algebraic defining relations of the point groups. This work will be of great interest to graduate students and professionals in solid state physics, chemistry, mathematics, geology and those who are interested in magnetic crystal structures.

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