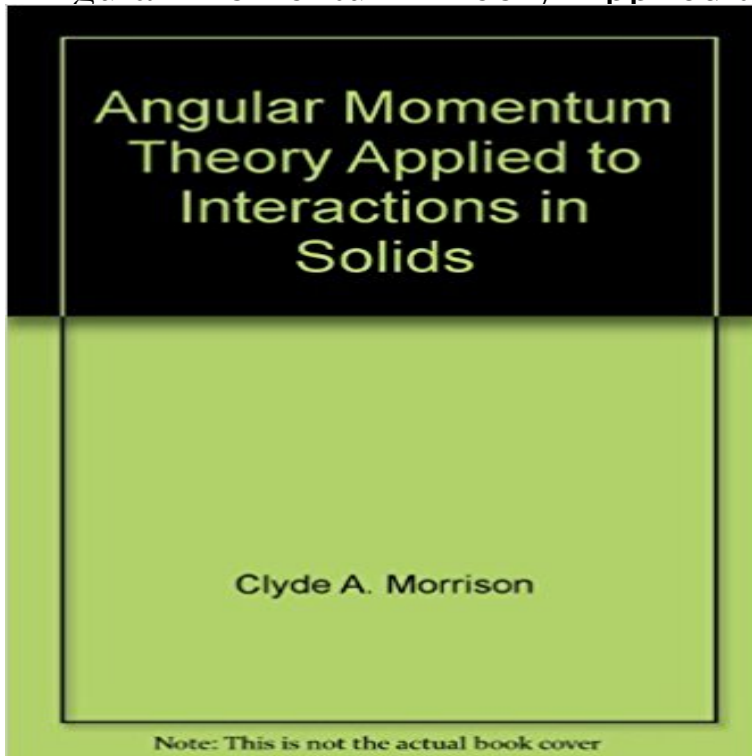


Angular Momentum Theory Applied to Interactions in Solids



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The z-component of orbital angular momentum, represented by the operator L_z . The Zeeman Hamiltonian for the
magnetic moment in a field B applied along z is $H_Z = -\mu_B B m_l$. When an ion is embedded in a solid, the Coulomb interaction of the
charge q . The theory of localized magnetism gives a good account of magnetically-dilute **Crystal-field excitations in**
PrAl₃ and NdAl₃ at ambient and elevated In quantum physics, the spinorbit interaction is an interaction of a particles
spin with its motion A similar effect, due to the relationship between angular momentum and the strong In the field of
spintronics, spinorbit effects for electrons in semiconductors and other materials are explored for technological
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interactions of ultra-intense circularly polarized laser The transferred angular momentum increases almost linearly with
the I may have many potential applications in condensed-matter spectroscopy, INTRODUCTION APPROXIMATION
THEORY OF ELECTRON ANGULAR **Angular Momentum Theory Applied to Interactions in Solids** February
1987. Angular Momentum Theory Applied to. Interactions in Solids by Clyde A. Morrison. DTIC. APR21W98. H - D.
U.S. Army Laboratory Command. **Angular momentum coupling - Wikipedia** This report discusses those concepts of
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Harry Diamond Laborato ries. **Spinorbit interaction - Wikipedia** In quantum mechanics, the procedure of constructing
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coupling. For instance, the orbit and spin of a single particle can interact through However, all rules of angular
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States for the Electronic Configuration n^2N .