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Approximation (Solid State Physics, Supplement, 3) By
A. A. Maradudin;E. W. Montroll;G. H. Weiss**

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We develop a theory that takes into account the atomic vibrations directly in the .. Note that we derived this result without making the harmonic .. [39] Maradudin A A, Montroll E W and Weiss G H 1971 Theory of Lattice Dynamics in the Harmonic. Approximation 2nd ed (Solid State Physics vol Supplement 3) (New York:

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Feb 21, 2009 Initially, the continuum approximation and perturbation theory were used to resemble a feature associated with a harmonic force constant lattice .. Maradudin, A.A., Montroll, E.W., Weiss, G.H.: Theory of lattice dynamics in the Solid State Physics Supplement 3. In: Norton, G.K. Maradudin, A.A. (eds.)

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More generally, lattice gauge theory and lattice field theory are areas of study. Lattice models are also used to simulate the structure and dynamics of polymers.

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