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



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Visualizing intrinsic localized modes with a

Laboratory of Atomic and Solid State Physics, Cornell University Keywords: nonlinear dynamics, intrinsic localized mode, discrete breather, harmonic approximation in describing this lattice defect .. 3. A.A. Maradudin, E.W. Montroll , and G.H. Weiss, Theory of Lattice demic Press, New York (1963), Supplement 3. 4.

Thermal expansion and gruneisen parameters of

Department of Physics, State University of New York at Stony Brook, Stony .. Horton and A. A. Maradudin (North-Holland, Amsterdam, 1974) Vol. [15] A. A. Maradudin, E. W. Montroll, G. H. Weiss, and I. P. Ipatova, Theory of Lattice Dy- namics in the Harmonic Approximation, Solid State Physics, Supplement 3 (Academic.

A classical theory of lattice dynamics |

Abstract. A new formulation of the classical theory of lattice dynamics is presented which correctly reproduces all the features of the quantum theoretical results.

F6 space group theory and lattice dynamics

The major applications of group theory in lattice dynamics result from the assertion that the lattice normal modes are bases for the irreducible representations

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title pages; preface; acknowledgements; 1 crystals and lattice geometry; 2 electronic structure of the perfect lattice; 3 lattice dynamics; 4 effective-mass theory

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The quantum theory of lattice dynamics. I 81 for the particular nuclear configuration x and expand the wave functions X_q of H in terms of $\psi(k, r, x)$ as follows:

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A classical theory of lattice dynamics 281 where the double sum is over all possible permutations of a_0 and a_1 and the prime indicates the exclusion of self

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approximation level, including harmonic phonon zero point energy correction .. It has been shown [3, 5] that the dehydrogenation represented in reaction 7.3 is the . [24] A. A. Maradudin, E. W. Montroll, G. H. Weiss, I. P. Ipatova, Theory of lattice dynamics in the harmonic approximation, Solid State Physics Supplement vol

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The electronic contribution to the dynamical tensors is examined in more detail and the following results are obtained. First the electronic contribution is shown to

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