

**Theory Of Lattice Dynamics In The Harmonic
Approximation (Solid State Physics, Supplement, 3)**

By A. A. Maradudin;E. W. Montroll;G. H. Weiss

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The lattice dynamical matrix has been derived from a new model of metallic cohesion, the 3); S.M. Foiles, (in preparation). 9); A.A. Maradudin, E.W. Montroll, G.H. Weiss, I.P. Ipatova. Theory of Lattice Dynamics in the Harmonic Approximation. H. Ehrenreich, F. Seitz, D. Turnbull (Eds.), Solid State Physics series (second
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3, 32, 4, 42, 6, and 62, a rotation of the plane of polarization along the optical .. A. A. Maradudin, E. W. Montroll, G. H. Weiss Theory of lattice dynamics in the harmonic approximation. Solid State R. Truell, C. Elbaum, B. B. Chick Ultrasonic methods in solid state physics. . Supplement and extension to III/1 (1969). Vol.
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<http://adsabs.harvard.edu/abs/1977PhRvB..15.1867U>

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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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<http://arxiv.org/pdf/cond-mat/0212387>

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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.

<http://fntr.ilt.kharkov.ua/join.php?fn=/fnt/pdf/34/34-7/f34-0687e.pdf>

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Energy-Momentum Spectrum of Some Two-Particle -

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