

(a) the potential energy V

$$V = \frac{K}{2} \sum_n \left[(x_n^A - x_n^B)^2 + (x_n^B - x_{n+1}^A)^2 \right]$$


$$= x_n^A - x_n^B = x_n^A(0) - x_n^B(0) = u_n^A + u_n^B$$

(u : the displacement from the equilibrium)

$$= \frac{K}{2} \sum_n \left[(x_n^A(0) - x_n^B(0) - u_n^A + u_n^B) + (x_n^B(0) - x_{n+1}^A(0) - u_n^B + u_{n+1}^A) \right]^2$$

→ the equation of motion

$$M_1 \ddot{u}_n^A = - \frac{\partial V}{\partial u_n^A} = -K [u_n^A - u_n^B + u_n^A - u_{n-1}^B]$$

$$M_2 \ddot{u}_n^B = - \frac{\partial V}{\partial u_n^B} = -K [u_n^B - u_n^A + u_n^B - u_{n+1}^A]$$

• Assumptions for the wave

$$u_n^A = \alpha \exp[i(kna - \omega t)]$$

$$u_n^B = \beta \exp[i(knb - \omega t)]$$

$$\rightarrow \begin{pmatrix} M_1 \omega^2 - 2K & K(1 + e^{-ikb}) \\ K(1 + e^{ikb}) & M_2 \omega^2 - 2K \end{pmatrix} \begin{pmatrix} \alpha \\ \beta \end{pmatrix} = 0$$

$$\Rightarrow (M_1 \omega^2 - 2K)(M_2 \omega^2 - 2K) - K^2(1 + e^{-ikb})(1 + e^{ikb}) = 0$$

$$\Rightarrow M_1 M_2 \omega^4 - 2K(M_1 + M_2)\omega^2 + 4K^2 - K^2(1 + e^{-ikb})(1 + e^{ikb}) = 0$$

$$\Rightarrow \omega^2 = \frac{K}{M_1 M_2} \left[M_1 + M_2 \pm \sqrt{M_1^2 + M_2^2 + 2M_1 M_2 \cos kb} \right]$$

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Simulations for Solid State Physics Hardback with CD-ROM Robert H. Silsbee, Joerg Draeger, Jörg Dräger, 1997-06-28 Interactive resource centering around fourteen high quality computer simulations covering essential topics in solid state physics

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Introduction to Lattice Dynamics Martin T. Dove, 1993-10-21 The vibrations of atoms inside crystals lattice dynamics is basic to many fields of study in the solid state and mineral sciences This book provides a self contained text that introduces the subject from a basic level and then takes the reader through applications of the theory

The Specific Heat Of Matter At Low Temperatures Ahmet Tari, 2003-08-12 Recent discoveries of new materials and improvements in calorimetric techniques have given new impetus to the subject of specific heat Nevertheless there is a serious lack of literature on the subject This invaluable book which goes some way towards remedying that is concerned mainly with the specific heat of matter at ordinary temperatures It discusses the principles that underlie the theory of specific heat and considers a number of theoretical models in some detail The subject matter ranges from traditional materials to those recently discovered heavy fermion compounds high temperature superconductors spin glasses and so on and includes a large number of figures tables and references The book will be particularly useful for advanced undergraduate and postgraduate students as well as academics and researchers a

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Nano-Electronic Devices Dragica Vasileska,Stephen M. Goodnick,2011-06-10 This book surveys the advanced simulation methods needed for proper modeling of state of the art nanoscale devices It systematically describes theoretical approaches and the numerical solutions that are used in explaining the operation of both power devices as well as nano scale devices It clearly explains for what types of devices a particular method is suitable which is the most critical point that a

researcher faces and has to decide upon when modeling semiconductor devices

Materials, Preparation, and Characterization in Thermoelectrics David Michael Rowe, 2012-04-25

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Understanding Solid State Physics Jacques Cazaux, 2016-03-23 The correlation between the microscopic composition of solids and their macroscopic electrical, optical, thermal properties is the goal of solid state physics. This book is the deeply revised version of the French book *Initiation à la physique du solide* exercices commentés avec rappels de cours written more than 20 years ago. It has five sections.

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