

### 5. Normal Modes of a Three-Dimensional Crystal

Consider a face-centered cubic monatomic Bravais lattice in which each ion interacts only with its (twelve) nearest neighbors. Assume that the interaction between a pair of neighboring ions is described by a pair potential  $\phi$  that depends only on the distance  $r$  between the pair of ions.

(a) Show that the frequencies of the three normal modes with wave vector  $\mathbf{k}$  are given by

$$\omega = \sqrt{\lambda/M} \quad (22.96)$$

where the  $\lambda$  are the eigenvalues of the  $3 \times 3$  matrix:

$$\mathbf{D} = \sum_{\mathbf{R}} \sin^2(\frac{1}{2}\mathbf{k} \cdot \mathbf{R}) [A\mathbf{1} + B\hat{\mathbf{R}}\hat{\mathbf{R}}]. \quad (22.97)$$

Here the sum is over the twelve nearest neighbors of  $\mathbf{R} = 0$ :

$$\frac{a}{2}(\pm\hat{x} \pm \hat{y}), \quad \frac{a}{2}(\pm\hat{y} \pm \hat{z}), \quad \frac{a}{2}(\pm\hat{z} \pm \hat{x}); \quad (22.98)$$

$\mathbf{1}$  is the unit matrix ( $(\mathbf{1})_{\mu\nu} = \delta_{\mu\nu}$ ), and  $\hat{\mathbf{R}}\hat{\mathbf{R}}$  is the diadic formed from the unit vectors  $\hat{\mathbf{R}} = \mathbf{R}/R$  (i.e.,  $(\hat{\mathbf{R}}\hat{\mathbf{R}})_{\mu\nu} = \hat{R}_\mu\hat{R}_\nu$ ). The constants  $A$  and  $B$  are:  $A = 2\phi'(d)/d$ ,  $B = 2[\phi''(d) - \phi'(d)/d]$ , where  $d$  is the equilibrium nearest-neighbor distance. (This follows from Equations (22.59) and (22.11).)

(b) Show that when  $\mathbf{k}$  is in the (100) direction ( $\mathbf{k} = (k, 0, 0)$  in rectangular coordinates), then one normal mode is strictly longitudinal, with frequency

$$\omega_L = \sqrt{\frac{8A + 4B}{M}} \sin \frac{1}{4}ka, \quad (22.99)$$

and the other two are strictly transverse and degenerate, with frequency

$$\omega_T = \sqrt{\frac{8A + 2B}{M}} \sin \frac{1}{4}ka. \quad (22.100)$$

# Ashcroft Mermin Problem 5 Solution

**Nathan Newbury, Mark Newman**



## **Ashcroft Mermin Problem 5 Solution:**

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Solid State Physics László Mihály, Michael C Martin, 2009-02-24 The ideal companion in condensed matter physics now in new and revised edition. Solving homework problems is the single most effective way for students to familiarize themselves with the language and details of solid state physics. Testing problem solving ability is the best means at the professor's disposal for measuring student progress at critical points in the learning process. This book enables any instructor to supplement end of chapter textbook assignments with a large number of challenging and engaging practice problems and discover a host of new ideas for creating exam questions. Designed to be used in tandem with any of the excellent textbooks on this subject *Solid State Physics Problems and Solutions* provides a self study approach through which advanced undergraduate and first year graduate students can develop and test their skills while acclimating themselves to the demands of the discipline. Each problem has been chosen for its ability to illustrate key concepts, properties and systems knowledge of which is crucial in developing a complete understanding of the subject including Crystals, diffraction and reciprocal lattices, Phonon dispersion and electronic band structure, Density of states, Transport, magnetic and optical properties, Interacting electron systems, Magnetism, Nanoscale Physics.

Princeton Problems in Physics with Solutions Nathan Newbury, Mark Newman, 2015-03-25 Aimed at helping the physics student to develop a solid grasp of basic graduate level material this book presents worked solutions to a wide range of informative problems. These problems have been culled from the preliminary and general examinations created by the physics department at Princeton University for its graduate program. The authors, all students who have successfully completed the examinations, selected these problems on the basis of usefulness, interest and originality and have provided highly detailed solutions to each one. Their book will be a valuable resource not only to other students but to college physics teachers as well. The first four chapters pose problems in the areas of mechanics, electricity and magnetism, quantum mechanics and thermodynamics and statistical mechanics, thereby serving as a review of material typically covered in undergraduate courses. Later chapters deal with material new to most first year graduate students, challenging them on such topics as condensed matter, relativity and astrophysics, nuclear physics, elementary particles and atomic and general

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Whitaker's Cumulative Book List ,1981     **Russian Journal of Inorganic Chemistry** ,1998     **Canadian Journal of Physics** ,1986

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