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CHAPTER 2 1. The crystal plane with Miller indices hka is a plane defined by the points $a/h, a/2k,$ and $(a,0)$. Two vectors that lie in the plane may be taken as $a/2h - a/2k$ and $a/h - a/3A$. But each of these vectors gives zero as its scalar product with $G = h/2a + a/3A$, so that G must be perpendicular to the plane hka .

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ABSTRACT. These are notes and solutions to Kittel and Kroemer's Thermal Physics. The solutions are (almost) complete: I will The solutions are (almost) complete: I will continuously add to subsections, before the problems in each chapter, my notes that I write down as I read (and continuously reread).

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Solutions of Selected Problems and Answers 785 Chapter 3 Problem 3.1s According to (3.1) the viscosity η is equal to $\frac{1}{3} n m \lambda v$, where λ is the mean free path and v is the average speed of the molecules; τ is the characteristic time of motion of each water molecule; τ is expected to be of the order of the period of molecular vibration T in ice: $\tau = cT = 2\pi c / \omega$, where $\omega = c / \lambda$.

Solutions of Selected Problems and Answers
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Solutions for Homework Set 3
Since the publication of the first edition over 50 years ago, Introduction to Solid State Physics has been the standard solid state physics text for physics majors. The author's goal from the beginning has been to write a book that is accessible to undergraduate and consistently teachable. The emphasis in the book has always been on physics rather than formal mathematics.

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Homework 10 { Solution 10.1. Show that for a diatomic chain (two different masses M_1 and M_2 that interact with same force constant C , as given in Eq. (18) of Kittel Chapter 4), the ratio of the displacements of the two atoms $u=v$ for the $k=0$ optic mode is given by $u/v = M_2/M_1$; as shown in Eq. (26) of Kittel Chapter 4. Solution: From the first ...