

## Homework 1, due January 15, 1999

### Problem 1. Ashcroft-Mermin 4.1

For all three parts it is clear that the points on the corners of the original simple cubic lattice have the same environment. We need to compare the corner points with the new points.

- New points have same environment. Atoms surrounded by four atoms in a square in the horizontal plane and two atoms in the vertical direction. It is a Bravais lattice. Primitive vectors  $\vec{a}_1 = \frac{a}{2}(\hat{x} + \hat{y})$ ,  $\vec{a}_2 = \frac{a}{2}(\hat{x} - \hat{y})$ ,  $\vec{a}_3 = a\hat{z}$ . Tetragonal lattice.
- Different environment. New neighbors of corner points are new points. Each corner point has 8 nearest neighbors and they form a tetragonal block. The new points also have 8 nearest neighbors (four old corner points and four new points), but they form a tetragonal block that is rotated from the other one. Difference in direction. Simple cubic with basis  $\vec{a}'_1 = \vec{a}$ ,  $\vec{a}'_2 = \frac{a}{2}(\hat{x} + \hat{z})$ ,  $\vec{a}'_3 = \frac{a}{2}(\hat{y} + \hat{z})$ .
- Corner atoms have 6 nearest neighbors, but new atoms only have two. Not a Bravais lattice. Simple cubic with a basis  $\vec{a}'_1 = \vec{a}$ ,  $\vec{a}'_2 = \frac{a}{2}\hat{x}$ ,  $\vec{a}'_3 = \frac{a}{2}\hat{y}$ ,  $\vec{a}'_4 = \frac{a}{2}\hat{z}$ .

### Problem 2. Ashcroft-Mermin 4.2

Use Figure 4.18 with  $n=1$ . Central atom E at  $\vec{E} = \frac{a}{4}(\hat{x} + \hat{y} + \hat{z})$ . Nearest neighbors at  $\vec{A} = \vec{a}$ ,  $\vec{B} = \frac{a}{2}(\hat{x} + \hat{y})$ ,  $\vec{C} = \frac{a}{2}(\hat{y} + \hat{z})$ ,  $\vec{D} = \frac{a}{2}(\hat{x} + \hat{z})$ .

$$\text{Distance AD} = |\vec{D}| = \frac{1}{2}\sqrt{2}a$$

$$\text{Distance AE} = |\vec{E}| = \frac{1}{4}\sqrt{3}a$$

$$\text{Distance DE} = \text{Distance AE by symmetry}$$

Cosine rule:

$$AD^2 = AE^2 + ED^2 - 2AEDE\cos(\alpha)$$

gives

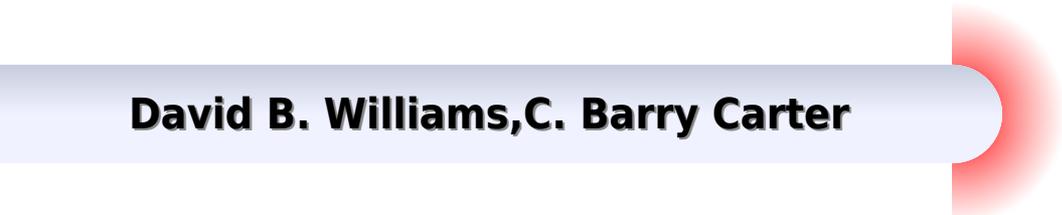
$$\cos(\alpha) = -\frac{1}{3}$$

### Problem 3. Ashcroft-Mermin 4.4

- By construction, for every vector in the Bravais lattice the inverse vector is also in the Bravais lattice. Following the construction of the Wigner-Seitz cell using bisecting lines we find that for every side of the Wigner-Seitz cell there is another that is the inverse of this. The number of sides of the Wigner-Seitz cell is even. Two is not possible, hence the number of sides is four (rectangle), six (hexagon), or more.

# Ashcroft And Mermin Chapter 9 Solutions

**David B. Williams, C. Barry Carter**



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**Transmission Electron Microscopy** David B. Williams, C. Barry Carter, 2009-07-31 This groundbreaking text has been established as the market leader throughout the world Profusely illustrated Transmission Electron Microscopy A Textbook for Materials Science provides the necessary instructions for successful hands on application of this versatile materials characterization technique For this first new edition in 12 years many sections have been completely rewritten with all others revised and updated The new edition also includes an extensive collection of questions for the student providing approximately 800 self assessment questions and over 400 questions that are suitable for homework assignment Four color illustrations throughout also enhance the new edition Praise for the first edition The best textbook for this audience available American Scientist Ideally suited to the needs of a graduate level course It is hard to imagine this book not fulfilling most of the requirements of a text for such a course Microscope This book is written in such a comprehensive manner that it is understandable to all people who are trained in physical science and it will be useful both for the expert as well as the student Micron The book answers nearly any question be it instrumental practical or theoretical either directly or with an appropriate reference This book provides a basic clear cut presentation of how transmission electron microscopes should be used and of how this depends specifically on one s specific undergoing project MRS Bulletin May 1998 The only complete text now available which includes all the remarkable advances made in the field of TEM in the past 30 40 years The authors can be proud of an enormous task very well done from the Foreword by Professor Gareth Thomas University of California Berkeley

**Thermal Physics** Robert Floyd Sekerka, 2015-08-19 In Thermal Physics Thermodynamics and Statistical Mechanics for Scientists and Engineers the fundamental laws of thermodynamics are stated precisely as postulates and subsequently connected to historical context and developed mathematically These laws are applied systematically to topics such as phase equilibria chemical reactions external forces fluid fluid surfaces and interfaces and anisotropic crystal fluid interfaces Statistical mechanics is presented in the context of information theory to quantify entropy followed by development of the most important ensembles microcanonical canonical and grand canonical A unified treatment of ideal classical Fermi and Bose gases is presented including Bose condensation degenerate Fermi gases and classical gases with internal structure Additional topics include paramagnetism adsorption on dilute sites point defects in crystals thermal aspects of intrinsic and extrinsic semiconductors density matrix formalism the Ising model and an introduction to Monte Carlo simulation Throughout the book problems are posed and solved to illustrate specific results and problem solving techniques Includes applications of interest to physicists physical chemists and materials scientists as well as materials chemical and mechanical engineers Suitable as a textbook for advanced undergraduates graduate students and practicing researchers Develops content systematically with increasing order of complexity Self contained including nine appendices to handle necessary background and technical details

**Molecular Dynamics Simulation Studies of Liquid Water and**

**Aqueous Ionic Solutions** James Edward Roberts,1995      **Transmission Electron Microscopy** David Bernard Williams,C. Barry Carter,1996 This groundbreaking text provides the necessary instructions for hands on application of this versatile materials characterization technique and is supported by over 600 illustrations and diagrams

**High Energy Electron Diffraction and Microscopy** L.-M. Peng,S. L. Dudarev,M. J. Whelan,2004 This book is an in depth treatment of the theoretical background relevant to an understanding of materials that can be obtained by using high energy electron diffraction and microscopy

**Electromagnetic Waves** Carlo G. Someda,1998-05-12 This book provides a comprehensive treatment of electromagnetic waves The author s approach is thoroughly modern and unlike many others this text offers a unified view of electromagnetic waves and their applications in telecommunications radar and photonics The extensive coverage of Electromagnetic Waves begins with Maxwell s equations and takes students on the journey from the wave and Helmholtz equations through polarization plane waves and wave beams and packets to antennas transmission lines and waveguides Completing the treatment are chapters devoted to diffraction and an introduction to the theory of coherence The author strikes an effective balance of the teach through concepts and teach by example approaches The book is filled with exercises current applications and exercises that solidify students understanding and bring relevance to the material It forms an outstanding text for senior undergraduates and graduate level students in electrical engineering and physics

**Solid State Physics** Neil W. Ashcroft,N. David Mermin,1976 This book provides an introduction to the field of solid state physics for undergraduate students in physics chemistry engineering and materials science

**Ferroelectricity in Doped Hafnium Oxide** Uwe Schroeder,Cheol Seong Hwang,Hiroshi Funakubo,2019-03-27 Ferroelectricity in Doped Hafnium Oxide Materials Properties and Devices covers all aspects relating to the structural and electrical properties of HfO<sub>2</sub> and its implementation into semiconductor devices including a comparison to standard ferroelectric materials The ferroelectric and field induced ferroelectric properties of HfO<sub>2</sub> based films are considered promising for various applications including non volatile memories negative capacitance field effect transistors energy storage harvesting and solid state cooling Fundamentals of ferroelectric and piezoelectric properties HfO<sub>2</sub> processes and the impact of dopants on ferroelectric properties are also extensively discussed in the book along with phase transition switching kinetics epitaxial growth thickness scaling and more Additional chapters consider the modeling of ferroelectric phase transformation structural characterization and the differences and similarities between HfO<sub>2</sub> and standard ferroelectric materials Finally HfO<sub>2</sub> based devices are summarized Explores all aspects of the structural and electrical properties of HfO<sub>2</sub> including processes modelling and implementation into semiconductor devices Considers potential applications including FeCaps FeFETs NCFETs FTJs and more Provides comparison of an emerging ferroelectric material to conventional ferroelectric materials with insights to the problems of downscaling that conventional ferroelectrics face

**Carbon Nanotube and Graphene Nanoribbon Interconnects** Debaprasad Das,Hafizur Rahaman,2017-12-19 An Alternative to Copper Based Interconnect

Technology With an increase in demand for more circuit components on a single chip there is a growing need for nanoelectronic devices and their interconnects a physical connecting medium made of thin metal films between several electrical nodes in a semiconducting chip that transmit signals from one point to another without any distortion Carbon Nanotube and Graphene Nanoribbon Interconnects explores two new important carbon nanomaterials carbon nanotube CNT and graphene nanoribbon GNR and compares them with that of copper based interconnects These nanomaterials show almost 1 000 times more current carrying capacity and significantly higher mean free path than copper Due to their remarkable properties CNT and GNR could soon replace traditional copper interconnects Dedicated to proving their benefits this book covers the basic theory of CNT and GNR and provides a comprehensive analysis of the CNT and GNR based VLSI interconnects at nanometric dimensions Explore the Potential Applications of CNT and Graphene for VLSI Circuits The book starts off with a brief introduction of carbon nanomaterials discusses the latest research and details the modeling and analysis of CNT and GNR interconnects It also describes the electrical thermal and mechanical properties and structural behavior of these materials In addition it chronicles the progression of these fundamental properties explores possible engineering applications and growth technologies and considers applications for CNT and GNR apart from their use in VLSI circuits Comprising eight chapters this text Covers the basics of carbon nanotube and graphene nanoribbon Discusses the growth and characterization of carbon nanotube and graphene nanoribbon Presents the modeling of CNT and GNR as future VLSI interconnects Examines the applicability of CNT and GNR in terms of several analysis works Addresses the timing and frequency response of the CNT and GNR interconnects Explores the signal integrity analysis for CNT and GNR interconnects Models and analyzes the applicability of CNT and GNR as power interconnects Considers the future scope of CNT and GNR Beneficial to VLSI designers working in this area Carbon Nanotube and Graphene Nanoribbon Interconnects provides a complete understanding of carbon based materials and interconnect technology and equips the reader with sufficient knowledge about the future scope of research and development for this emerging topic

Highlights on Spectroscopies of Semiconductors and Insulators Adalberto Balzarotti, Giorgio Guizzetti, Angiolino Stella, 1989

**An Experimental and Theoretical Study of Furan Decomposition on Pd(111) Using Scanning Tunneling Microscopy and Density Functional Theory** Albert Loui, 2005

*Principles of Superconductive Devices and Circuits* Theodore Van Duzer, Charles William Turner, 1981

*A Materials Approach to Improving the Efficiency of Thermoelectric Cooling Devices* Kristin Marie Poduska, 2001

*Microdosimetry* H. G. Menzel, 1994

**Point Contact Spectroscopy with Nanofabricated Junctions of Spin and Energy-dependent Transport in Heterogeneous Ferromagnetic Systems** Richard Nam Louie, 1997

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**Solutions Manual for Chapter 9, 12 & 13** Murray W. Hilton, 1998

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