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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

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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

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