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Chen was an electrical engineer at Skyworks Solutions Inc., a publicly traded Woburn, Massachusetts-based semiconductor company with a branch office and design center in Irvine. During the spring and summer of 2014, Chen bought Skyworks stock and options based on confidential information not yet available to the public.

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A semiconductor material has an electrical conductivity value falling between that of a conductor, such as metallic copper, and an insulator, such as glass. Its resistivity falls as its temperature rises; metals are the opposite. Its conducting properties may be altered in useful ways by introducing impurities into the crystal structure. When two differently-doped regions exist in the same crystal, a semiconductor junction is created. The behavior of charge carriers, which include electrons, ion

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Semiconductor-based devices with increased reliability, low cost, unusual lightness, small size, and minimal service have become an important part of our daily lives. It is difficult to imagine life without electronic vehicles, TVs, computers, smartphones, medical networks, and global e-commerce. As this book argues, semiconductors are the main “driving force” behind economic strength, national security, and resilience in times of crisis. However, novel types of semiconductors are needed in order to support ever-growing scaling demands today. Developing semiconductors with desired properties, such as tolerance to radiation, for instance, is of crucial importance. InAs-InP solid solutions present an example of such materials used for cutting-edge electronic technologies. Packed with diagrams and accompanying detailed computations, this book provides a comprehensive coverage of InAs_{1-x}P_x solid solutions, from the production of single bulk crystals and layers to the thorough study of their properties and to their inexhaustible application potential in electronics.

Single Crystal Growth of Semiconductors from Metallic Solutions covers the four principal growth techniques currently in use for the growth of semiconductor single crystals from metallic solutions. Providing an in-depth review of the state-of-the-art of each, both experimentally and by numerical simulations. The importance of a close interaction between the numerical and experimental aspects of the processes is also emphasized. Advances in the fields of electronics and opto-electronics are hampered by the limited number of substrate materials which can be readily produced by melt-growth techniques such as the Czochralski and Bridgman methods. This can be alleviated by the use of alternative growth techniques, and in particular, growth from metallic solutions. The principal techniques currently in use are: Liquid Phase Epitaxy; Liquid Phase Electroepitaxy; the Travelling Heater Method, and; Liquid Phase Diffusion. Single Crystal Growth of Semiconductors from Metallic Solutions will serve as a valuable reference tool for researchers, and graduate and senior undergraduate students in the field of crystal growth. It covers most of the models developed in recent years. The detailed development of basic and constitutive equations and the associated interface and boundary conditions given for each technique will be very valuable to researchers for the development of their new models. * Describes the fundamentals of crystal growth modelling * Providing a state-of-the art description of the mathematical and experimental growth processes * Allows reader to gain clear insight into the practical and mathematical aspects of the topic

This reference examines the processes involved in the deposition of semiconductor films by chemical solution deposition and explains the effect of various process parameters on final film and film deposition outcomes through the use of detailed examples--discussing specific depositions of a wide range of semiconductors and properties of the resulting films.

Discussing specific depositions of a wide range of semiconductors and properties of the resulting films, Chemical Solution Deposition of Semiconductor Films examines the processes involved and explains the effect of various process parameters on final film and film deposition outcomes through the use of detailed examples. Supplying experimental res

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Physics of Semiconductor Devices covers both basic classic topics such as energy band theory and the gradual-channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short-channel effects, low-dimensional devices and single-electron transistors. Concepts are introduced to the reader in a simple way, often using comparisons to everyday-life experiences such as simple fluid mechanics. They are then explained in depth and mathematical developments are fully described. Physics of Semiconductor Devices contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory. Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner.

The symposium consisted of four half-day sessions on topics at the forefront of semiconductor electrochemistry and solution-based processing including etching, patterning, passivation, porosity formation, electrochemical film growth, energy conversion materials, deposition, semiconductor surface functionalization, photoelectrochemical and optical properties, and other related processes. This issue of ECS Transactions contains 18 of the papers presented including invited papers by H. Föll (Christian-Albrechts University Kiel), J. N. Chazalviel (Ecole Polytechnique, CNRS), D. N. Buckley (University of Limerick, and Past President, ECS), J. D. Holmes (University College Cork), E. Chassaing (IRDEP, EDF-CNRS-ENSCP).

The development of solid state devices began a little more than a century ago, with the discovery of the electrical conductivity of ionic solids. Today, solid state technologies form the background of the society in which we live. The aim of this book is threefold: to present the background physical chemistry on which the technology of semiconductor devices is based; secondly, to describe specific issues such as the role of defects on the properties of solids, and the crucial influence of surface properties; and ultimately, to look at the physics and chemistry of semiconductor growth processes, both at the bulk and thin-film level, together with some issues relating to the properties of nano-devices. Divided into five chapters, it covers: Thermodynamics of solids, including phases and their properties and structural order Point defects in semiconductors Extended defects in semiconductors and their interactions with point defects and impurities Growth of semiconductor materials Physical chemistry of semiconductor materials processing With applications across all solid state technologies, the book is useful for advanced students and researchers in materials science, physics, chemistry, electrical and electronic engineering. It is also useful for those in the semiconductor industry.