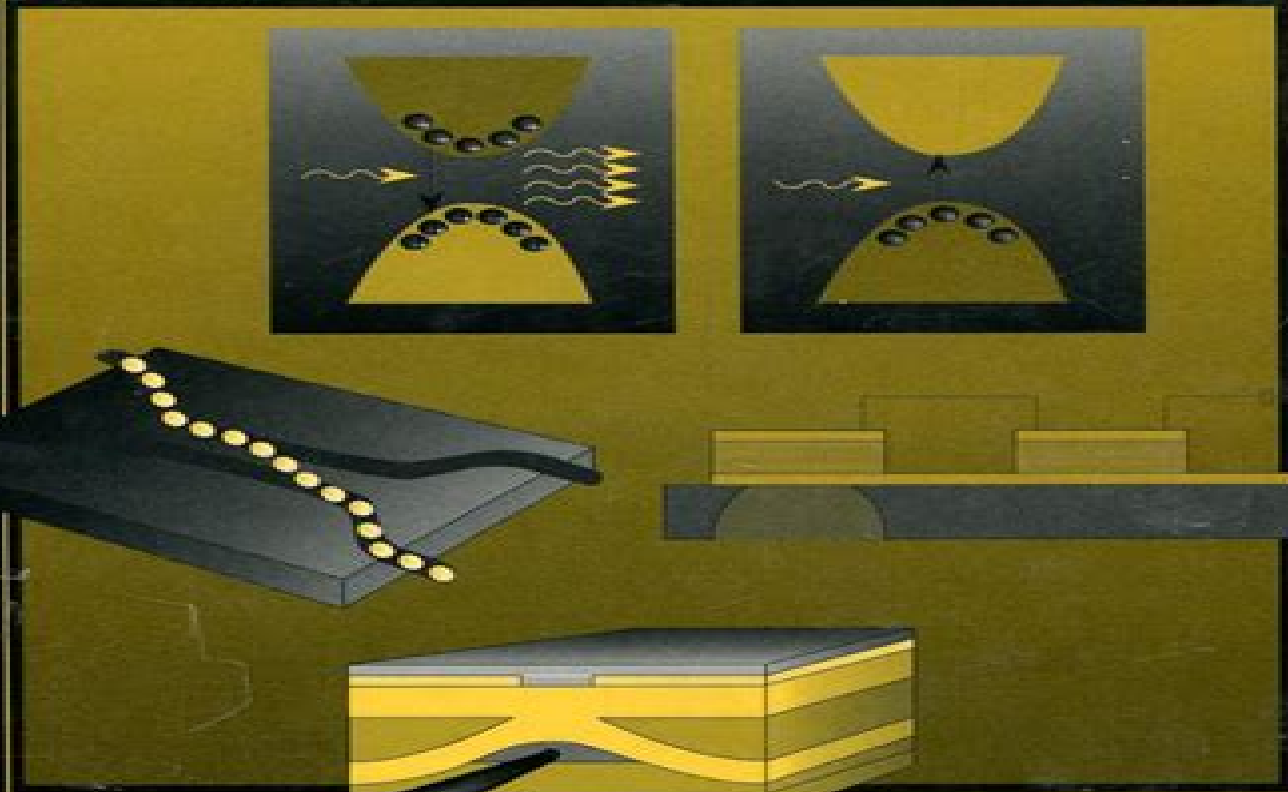


Jasprit Singh

# Semiconductor Optoelectronics

Physics and Technology



# Jasprit Singh Optoelectronics

**José Miguel López-Higuera, B. Culshaw**

## **Jasprit Singh Optoelectronics :**

Optoelectronics Jasprit Singh, 1996 Aimed at graduate students in electrical engineering this text provides a broad understanding of the rapidly growing field of optoelectronics An integrated approach is used covering topics in applied optics physics of optical response and semiconductor optoelectronic devices *Electronic and Optoelectronic Properties of Semiconductor Structures* Jasprit Singh, 2007-03-26 A graduate textbook presenting the underlying physics behind devices that drive today's technologies The book covers important details of structural properties bandstructure transport optical and magnetic properties of semiconductor structures Effects of low dimensional physics and strain two important driving forces in modern device technology are also discussed In addition to conventional semiconductor physics the book discusses self assembled structures mesoscopic structures and the developing field of spintronics The book utilizes carefully chosen solved examples to convey important concepts and has over 250 figures and 200 homework exercises Real world applications are highlighted throughout the book stressing the links between physical principles and actual devices *Electronic and Optoelectronic Properties of Semiconductor Structures* provides engineering and physics students and practitioners with complete and coherent coverage of key modern semiconductor concepts A solutions manual and set of viewgraphs for use in lectures are available for instructors from solutions.cambridge.org Semiconductor Devices Jasprit Singh, 2000-08-03 This introductory text designed for the first course in semiconductor physics presents a well balanced coverage of semiconductor physics and device operation and shows how devices are optimized for applications The text begins with an exploration of the basic physical processes upon which all semiconductor devices diodes transistor light emitters and detectors are based Topics such as bandstructure effective masses holes doping carrier transport and lifetimes are discussed Next the author focuses on the operation of the important semiconductor devices along with issues relating to the optimization of device performance Issues such as how doping device dimensions and parasitic effects influence device operation are also included The book is appropriate for the following courses Device Physics Semiconductor Devices Device Electronics Physics of Semiconductor Devices Integrated Circuit Devices Device Electronics Solid State Devices Semiconductor Optoelectronics Jasprit Singh, 1995 **CMOS Imagers** Orly Yadid-Pecht, Ralph Etienne-Cummings, 2007-05-08 The idea of writing a book on CMOS imaging has been brewing for several years It was placed on a fast track after we agreed to organize a tutorial on CMOS sensors for the 2004 IEEE International Symposium on Circuits and Systems ISCAS 2004 This tutorial defined the structure of the book but as first time authors editors we had a lot to learn about the logistics of putting together information from multiple sources Needless to say it was a long road between the tutorial and the book and it took more than a few months to complete We hope that you will find our journey worthwhile and the collated information useful The laboratories of the authors are located at many universities distributed around the world Their unifying theme however is the advancement of knowledge for the development of systems for CMOS imaging and image processing We hope that this book will highlight

the ideas that have been pioneered by the authors while providing a roadmap for new practitioners in this field to exploit exciting opportunities to integrate imaging and smartness on a single VLSI chip The potential of these smart imaging systems is still unfulfilled Hence there is still plenty of research and development to be done

Engineering a High-tech Business  
José Miguel López-Higuera, B. Culshaw, 2008 This book provides actual entrepreneurial stories giving insight into the pitfalls and successes one might find in starting or even continuing with a small high tech business Insights into innovative speculative and largely successful new ventures as experienced by those who went through the process are complemented by comments and observations from others in the field including researchers economists investors regional development agencies technology transfer organizations and universities The book is recommended to entrepreneurs in all high technology disciplines and in particular for students and early career professionals It can be also useful for undergraduate and postgraduate courses in entrepreneurship which many institutions are currently introducing and to those who are interested in how a high tech business might develop

**Optoelectronic Integrated Circuit Materials, Physics, and Devices** M. Razeghi, Yoon-Soo Park, Gerald L. Witt, 1995

*Polymers in Organic Electronics* Sulaiman Khalifeh, 2020-04-01

*Polymers in Organic Electronics Polymer Selection for Electronic Mechatronic and Optoelectronic Systems* provides readers with vital data guidelines and techniques for optimally designing organic electronic systems using novel polymers The book classifies polymer families types complexes composites nanocomposites compounds and small molecules while also providing an introduction to the fundamental principles of polymers and electronics Features information on concepts and optimized types of electronics and a classification system of electronic polymers including piezoelectric and pyroelectric optoelectronic mechatronic organic electronic complexes and more The book is designed to help readers select the optimized material for structuring their organic electronic system Chapters discuss the most common properties of electronic polymers methods of optimization and polymeric structured printed circuit boards The polymeric structures of optoelectronics and photonics are covered and the book concludes with a chapter emphasizing the importance of polymeric structures for packaging of electronic devices Provides key identifying details on a range of polymers micro polymers nano polymers resins hydrocarbons and oligomers Covers the most common electrical electronic and optical properties of electronic polymers Describes the underlying theories on the mechanics of polymer conductivity Discusses polymeric structured printed circuit boards including their rapid prototyping and optimizing their polymeric structures Shows optimization methods for both polymeric structures of organic active electronic components and organic passive electronic components

Applied Electro Optics  
Louis Desmarais, 1997-12-05 A back to basics guide to opto electronic circuit design and construction To successfully build and optimize opto electronic circuits you need to understand both the fundamentals of optics and electronics Applied Electro Optics provides engineers designers and technicians with a firm background in both optical physics and circuit design In Part I the book introduces the basic theory of opto electronics including Maxwell s equations and the wave nature of light

Reflection and refraction with extensive coverage of Snell's Law Interference phenomena and the Fabry Perot interferometer Diffraction effects and diffraction gratings Polarization and electro optic modulation Photons basic quantum theory and spectroscopic techniques Then in Part II the book introduces each major element of an electro optic system Understand semiconductor light sources such as LEDs and diode lasers Consider optical transmitters and discover how to minimize the impact of electromagnetic interference through careful circuit location grounding and shielding Review the basic structure and operation of photodiodes phototransistors optocouplers and photoconductors Then learn practical techniques for managing the trade offs required to integrate these devices into useful circuits A full chapter on optical receivers demonstrates how to integrate photodetectors into useful receiver circuits both amplifier and hybrid circuits are covered Finally walk step by step through building and optimizing circuits for a variety of applications including CD players and infrared data transmission If your goal is to build the best possible opto electronic circuits or just to understand how they operate Applied Electro Optics delivers just the right balance of theory and practice to help you *D.R.D.A. Reporter* ,1992

*Oxide and Nitride Semiconductors* Takafumi Yao, Soon-Ku Hong, 2009-03-20 This is a unique book devoted to the important class of both oxide and nitride semiconductors It covers processing properties and applications of ZnO and GaN The aim of this book is to provide the fundamental and technological issues for both ZnO and GaN **IEEE Circuits & Devices** ,2005 [Instrumentation in Elementary Particle Physics](#) Luis Villaseñor, Victor Villanueva, Víctor Manuel Villanueva Sandoval Villanueva, 2003-08 The main focus of this school was to teach about experimental techniques for particle nuclear cosmic ray and medical physics by means of laboratory sessions lecture courses and review talks It was aimed primarily at graduate students with some participation of young post doctoral students This volume includes lecture courses on Particle identification tracking detectors front end electronics and signal processing triggering and data acquisition general considerations confidence intervals as well as calorimetry **Optics Education** ,1995 [Time Resolved Near-field Microscopy of GaAs Thin Films](#) Steve Smith, 1996 **Linear Control System Analysis and Design** John Joachim D'Azzo, Constantine H. Houppis, 1995 This revised edition emphasizes undergraduate topics and the use of CAD programs while providing a rigorous treatment of advanced topics and derivation techniques Organized logically and for maximum teaching flexibility it instills the basic principles of feedback control essential to all specialty areas of engineering [IETE Journal of Research](#) ,2003 **Power Electronics** Joseph Vithayathil, 1995 This text provides an introduction to the field of power electronics emphasizing real world applications It covers topics such as power quality and vector control power semiconductor devices multiphase choppers and PWM inverters and adjustable speed AC and DC motor drives **Quantum Mechanics** Jasprit Singh, 2008-11-20 Explore the relationship between quantum mechanics and information age applications This volume takes an altogether unique approach to quantum mechanics Providing an in depth exposition of quantum mechanics fundamentals it shows how these concepts are applied to most of today's information technologies whether they

are electronic devices or materials No other text makes this critical essential leap from theory to real world applications The book s lively discussion of the mathematics involved fits right in with contemporary multidisciplinary trends in education Once the basic formulation has been derived in a given chapter the connection to important technological problems is summarily described A book for the information age Quantum Mechanics Fundamentals and Applications to Technology promises to become a standard in departments of electrical engineering applied physics and materials science as well as physics It is an excellent text for senior undergraduate and graduate students and a helpful reference for practicing scientists engineers and chemists in the semiconductor and electronic industries

**Quantum Wells and Superlattices in Optoelectronic Devices and Integrated Optics** Alfred R. Adams,1987

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