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an introduction to semiconductor devices by donald neamen provides an understanding of the characteristics operations and limitations of semiconductor devices in order to provide this understanding the book brings together the fundamental physics of the semiconductor material and the semiconductor device physics this new text provides an accessible and modern presentation of material quantum mechanic material is minimal and the most advanced material is designated with an icon this modern approach means that coverage of the mos transistor preceeds the material on the bipolar transistor which reflects the dominance of mos technology in today s world excellent pedagogy is present throughout the book in the form of interesting chapters openers worked examples a variety of exercises key terms and end of chapter problems

a practical guide to observational astronomy provides a practical and accessible introduction to the ideas and concepts that are essential to making and analyzing astronomical observations a key emphasis of the book is on how modern astronomy would be impossible without the extensive use of computers both for the control of astronomical instruments and the subsequent data analysis astronomers now need to use software to access and assess the data they produce so understanding how to use computers to control equipment and analyze data is as crucial to modern astronomers as a telescope therefore this book contains an array of practical problems for readers to test their knowledge in addition to a wealth of examples and tutorials using python on the author s website where readers can download and create image processing scripts this is an excellent study guide or textbook for an observational astronomy course for advanced undergraduate and graduate astronomy and physics students familiar with writing and running simple python scripts key features contains the latest developments and technologies from astronomical observatories and telescope facilities on the ground and in space accompanied by a companion website with examples tutorials python scripts and resources authored by an observational astronomer with over thirty years of observing and teaching experience about the author m shane burns earned his ba in physics at uc san diego in 1979 he began graduate work at uc berkeley in 1979 where he worked on an automated search for nearby supernovae after

being awarded a phd in 1985 professor burns became a postdoctoral researcher at the university of wyoming he spent the summer of 1988 as a visiting scientist at lawrence berkeley national lab where he helped found the supernova cosmology project scp he continued to work as a member of the scp group while a faculty member at harvey mudd college the us air force academy and colorado college the 2011 nobel prize in physics was awarded to the leader of the scp for the group's discovery of the accelerating expansion of the universe through observations of distant supernovae during his career professor burns has observed using essentially all of the world's great observatories including the keck observatory and the hubble space telescope companion website for the book mshaneburns github io obsastro

quantum mechanics touches all areas of physics chemistry life sciences and engineering it has emerged as a tool for researching and developing new technology that has had a deep impact on modern life an essential ingredient of quantum mechanics is the role of the observer and the duality between particle and wave properties of matter at very small scales this book covers such topics as complex space forms of quantum mechanics entropy in quantum mechanics and equations of relativistic quantum mechanics as well as applications of quantum mechanics to more complicated situations written by international experts the book illustrates the wide scope influence and applicability of quantum mechanics

the rapidly emerging fields of nanotechnology and nano fabrication have enabled the creation of new sensors with dramatic improvements in sensitivity and range along with substantial miniaturization and although there are many books on nanotechnology recent advances in micro and nano scale sensors and transducers are not adequately represented

introduction to fiber optic communications second edition provides students with a comprehensive understanding of modern optical fiber communication and its applications the book strikes a balanced approach between theory and practice avoiding excessive mathematics and derivations unlike other textbooks it covers recent technologies and developments such as electro optic modulators coherent optical systems and silicon integrated photonic circuits practical worked examples and exercises help solidify understanding and coverage ensures that students have a broad and deep knowledge base making them ready to tackle modern challenges in optical and communications engineering in addition to foundational principles the book covers optical transmission system design advanced modulation formats high speed dsp and important application areas like passive optical networks datacenters and optical interconnections covers fiber optic communication system fundamentals design rules and terminologies provides students with an understanding of the physical principles and characteristics of passive and active fiber optic components teaches students how to perform fiber optic system design performance evaluation and troubleshooting includes modern advances in modulation and decoding strategies

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semiconductor physics and devices brings together the fundamental physics semiconductor material physics and semiconductor device physics required to understand semiconductor device characteristics operation and limitations it covers the three basic types of transistors bipolar jfet and mosfet and includes discussions about processing techniques such as diffusion and ion implantation the book features important learning tools such as chapter preview sections chapter summary and review sections extensive examples chapter glossaries many problems chapter reading lists and an appendix with answers to selected problems

this book uses a top down approach to introduce readers to the spice simulator it begins by describing techniques for simulating circuits then presents the various spice and orcad commands and their applications to electrical and electronic circuits lavishly illustrated this new edition includes even more hands on exercises suggestions sample problems and circuit models of actual devices it is an ideal supplement for courses in electric or electronic circuitry and is also a solid professional reference book jacket title summary field provided by blackwell north america inc all rights reserved

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a collection of the 78 oral presentations and 24 poster papers from the january 2002 international workshop which brought together specialists from a broad area of electronic design manufacturing test and advanced system applications in the hope that the conference would integrate design test and application as cross dependent disciplines the contributions are organized into sessions focusing on analog test communications digital signal processing and architectures low to high level fault simulation and identification high level design memory power issues in design and test sensor and analog design electrical engineering education electromagnetics and control fault tolerant digital systems image processing robotics submicron technology test generation and compaction and test techniques and methodologies annotation copyrighted by book news inc portland or

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