

fundamental physics concepts and helps readers apply this conceptual understanding to quantitative problem solving it offers a unique combination of authoritative content and stimulating applications

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while theories based on classical physics have been very successful in helping experimentalists design microelectronic devices new approaches based on quantum mechanics are required to accurately model nanoscale transistors and to predict their characteristics even before they are fabricated advanced nanoelectronics provides research information on advanced nanoelectronics concepts with a focus on modeling and simulation featuring contributions by researchers actively engaged in nanoelectronics research it develops and applies analytical formulations to investigate nanoscale devices the book begins by introducing the basic ideas related to quantum theory that are needed to better understand nanoscale structures found in nanoelectronics including graphenes carbon nanotubes and quantum wells dots and wires it goes on to highlight some of the key concepts required to understand nanotransistors these concepts are then applied to the carbon nanotube field effect transistor cntfet several chapters cover graphene an unzipped form of cnt that is the recently discovered allotrope of carbon that has gained a tremendous amount of scientific and technological interest the book discusses the development of the graphene nanoribbon field effect transistor gnrfet and its use as a possible replacement to overcome the cnt chirality challenge it also examines silicon nanowire sinw as a new candidate for achieving the downscaling of devices the text describes the modeling and fabrication of sinw including a new top down fabrication technique strained technology which changes the properties of device materials rather than changing the device geometry is also discussed the book ends with a look at the technical and economic challenges that face the commercialization of nanoelectronics and what universities industries and government can do to lower the barriers a useful resource for professionals researchers and scientists this work brings together state of the art technical and scientific information on important topics in advanced nanoelectronics

formal ontology in information systems fois is the flagship conference of the international association for ontology and its applications iaoa its interdisciplinary research focus lies at the intersection of philosophical ontology linguistics logic cognitive science and computer science as well as in the applications of ontological analysis to conceptual modeling knowledge engineering knowledge management information systems development library and information science scientific research and semantic technologies in general as in previous years fois 2014 was a nexus of interdisciplinary research and communication the current proceedings is divided into four main sections dealing with foundations processes agency and dispositions methods and tools and applications the last of these covers a broad spectrum of areas including in particular biology and medicine engineering and economy for the first time in its history the conference hosted a special track an ontology competition the aim of which was to encourage authors to make their ontologies publicly available and to allow them to be evaluated according to a set of predetermined criteria papers discussing these ontologies can also be found in this volume the book will be of interest to all those whose work involves the application of ontologies and who are looking for a current overview of developments in formal ontology

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