An Introduction to the Physics of Semiconductor Devices

By David J Roulston


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Since the objective of this text is to provide an introduction to the theory of semiconductor devices, there is a great deal of advanced theory that is not considered. In addition, fabrication processes are not described in detail. There are a few references and general discussions about processing techniques such as diffusion and ion implantation, but only where the results of this processing have direct impact on device characteristics. Semiconductor devices have exploited materials, physics and imaginative applications to spawn new lifestyles. Of course for the device engineer, in spite of the advances, the challenges of reaching higher frequency, lower power consumption, higher power generation etc. provide never ending excitement. Device performances are driven by new materials, scaling, and new device concepts such as bandstructure and polarization engineering. The pace of semiconductor materials and device development has been staggering, and the impact on human society monumental. Leading this advance has been the development of the silicon-based MOSFET device and its continuous high level of integration. Semiconductor Device Physics and Design UMESH K. MISHRA University of California, Santa Barbara, CA, USA and JASPRIT SIN Semiconductor Devices: Physics and Technology. 590 Pages - 2012 - 19.21 MB - 5,421 Downloads - New! Semiconductor Devices: Physics and Technology, Third Edition is an introduction to the physical principles of modern sem Solid State Electronic Devices, 6th Edition. 604 Pages - 2005 - 77.29 MB - 25,697 Downloads - New! For undergraduate electrical engineering students or for practicing engineers and scientists, interested in updating the Semiconductor Physics And Devices - Donald