



Semiconductor Devices: An Introduction (McGraw-Hill series in electrical and computer engineering)

Jasprit Singh

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Semiconductor Devices: An Introduction presents a balanced approach to the physics of electrons in semiconductors and how this physics is used to produce devices. The basis of all electronic devices - bandstructure, density of states, Fermi statistics, doping concepts, transport and optical issues - are first explored with the focus on providing the reader with a physical insight into these important phenomena. The basic semiconductor devices are explored at two levels: (1) a mathematically rigorous but simple model for each device is developed and then; (2) the motivations of modern devices which are more complex are provided. By discussing silicon, gallium arsenide and other semiconductor based devices, the text provides a state-of-the-art discussion of modern electronic devices. Most subsections end with a solved example so that the reader develops a feel of real numbers and the importance of device design. The text also contains numerous end-of-chapter problems, summary tables, and a feature entitled "A Bit of History, " which provides historical perspectives of topics covered in the chapter.

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