



Semiconductor Device Design, Materials, Fabrication, and Characterization: From Silicon to Flexible Electronics

Madhusudan Singh, Lingjie J. Guo

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This is a comprehensive senior undergraduate / graduate level text on semiconductor device physics, electronics, fabrication, technology and characterization methods. It covers traditional crystalline semiconductors, organic semiconductors and polycrystalline / amorphous inorganic semiconductors. In addition to traditional CMOS device manufacturing processes, commonly used lab/industrial methods like spin-coating, dip-coating, printing, nanoimprint lithography, etc. are also covered to provide students with a holistic view of the subject. The book also has an appropriate treatment of modern device paradigms like flexible electronics, MEMS, low-temperature, and low-materials use manufacture, plasmonics, etc. Throughout the book, the authors cover a wide range of devices from diodes, transistors in terms of electronics and optoelectronic devices such as LEDs, solar cells, lasers, etc. Each chapter includes scores of thought-provoking problems that engage the student in the subject. Finally, the entire text is supplemented by a set of special topics that consist of important reviews of currently non-mainstream subjects that point to the future.

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