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If you want a sound base in semiconductors, this book is highly recommended by me. It provides lucid and comprehensive explanations of every aspect of semiconductor physics and has remarkable pedagogy features like examples and knowledge testing questions along with review questions and problems which further promote interest towards the subject.

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Donald A Neamen, Dhrubes Biswas, "Semiconductor Physics and Devices", 4th Edition, MCGraw Hill Education, 2012, ISBN 978-0-07-107010-2.

*ELECTRONIC DEVICES(18EC33)*

Chapters 4 through 6 cover the semiconductor material physics. Chapter 4 presents the physics of the semiconductor in thermal equilibrium; Chapter 5 treats the transport phenomena of the charge carriers in a semiconductor. The nonequilibrium excess carrier characteristics are then developed in Chapter 6.

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