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

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Chapters4 through6 cover the semiconductor material physics. Chapter4 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.