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were to increase, the bandgap energy would decrease and the material would begin to behave less like a semiconductor and more like a metal. If a ϕ_0 were to decrease, the bandgap energy would

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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.

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charge carriers in a semiconductor. The nonequilibrium excess carrier characteristics are then developed in Chapter 6.

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