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an introduction to semiconductor devices by donald neamen provides an understanding of the characteristics operations and limitations of semiconductor devices in order to provide this understanding the book brings together the fundamental physics of the semiconductor material and the semiconductor device physics this new text provides an accessible and modern presentation of material quantum mechanic material is minimal and the most advanced material is designated with an icon this modern approach means that coverage of the mos transistor precedes the material on the bipolar transistor which reflects the dominance of mos technology in today's world excellent pedagogy is present throughout the book in the form of interesting chapters openers worked examples a variety of exercises key terms and end of chapter problems

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