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Solid State Electronic Devices 6th

Ben G. Streetman is Dean Emeritus of the College of Engineering at The University of Texas at Austin. He is an Emeritus Professor of Electrical and Computer Engineering, where he held the Dula D. Cockrell Centennial Chair. He was the founding Director of the Microelectronics Research Center (1984—96).

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Prob. 6.6 For current ID varying linearly with VD at low values of Vofor a JFET. (a) use the binomial expansion to rewrite Equation 6-9 Equation 6-9 may be rewritten as $ID \approx G_0(VP - 2(-VG)2 JD - GQ$

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Solid-state electronics means semiconductor electronics; electronic equipment using semiconductor devices such as semiconductor diodes, transistors, and integrated circuits (ICs). The term is also used for devices in which semiconductor electronics which have no moving parts replace devices with moving parts,...

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Refer to Appendix III in the textbook. The semiconductor that has largest band gap is and its band gap is 3.6 eV. The semiconductor that has smallest band gap is and its band gap is 0.18 eV.

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Prob. 2.7 A particle is described in 1D by a wavefunction: $\Psi = Be^{-2x}$ for $x \geq 0$ and Ce^{+4x} for $x < 0$, and B and C are real constants. Calculate B and C to make Ψ a valid wavefunction.

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