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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 I_D varying linearly with V_D at low values of V_D for a JFET, (a) use the binomial expansion to rewrite Equation 6-9 Equation 6-9 may be rewritten as $I_D = I_{D0} - \frac{1}{2} \frac{V_D^2}{V_P^2} I_{D0}$

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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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