Schematics showing current density (a) and power density (b) characteristics. In (a), $J_x = J_s e^{-x1d}$, where J_x is the current density at some distance, x, from the surface; J_s is the current density at the surface, and d is the reference depth. In (b), $Wx = Ws\, e^{-2x1d}$, where Wx and Ws represent the power density at some distance, x, from the surface and the surface power density, respectively. Source: *ASM Handbook, Vol. 4, Heat Treating,* ASM International, 1991, p 165.