

Figure 8.23 The proposed model of different regions in an n-p junction built on imperfect material. (a) The model of Type I, II, and IV regions, and the relationship among them inside a device. (b) The junction at the interface of Type I, II, IV region, and Type III region. J_1 and J_2 are current flows discussed in Reference [19]. The distribution of carriers inside the Type III region is not considered

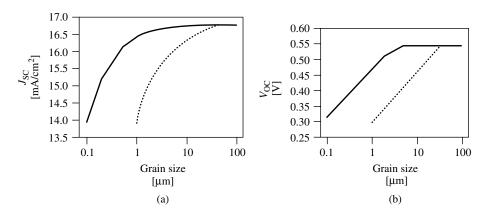


Figure 8.24 Calculated dependence of (a) J_{SC} ; and (b) V_{OC} on the grain size of the 10- μ m-thick cell for two values of interface recombination velocity, 100 cm/s (solid lines) and 1000 cm/s (dotted lines)