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### **Principles of Electronic Devices**

615 Equivalent circuit of an LED 64 62 The laser diode 65 621 Emission, Absorption and modal gain 65 622 Principle of operation of a laser diode 610

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Principles of Semiconductor Devices L Length m  $L_n$  Electron diffusion length m  $L_p$  Hole diffusion length m  $m$  Mass kg  $m_0$  Free electron mass kg  $m_e^*$  Effective mass of electrons kg  $m_h^*$  Effective mass of holes kg  $n$  Electron density  $m^{-3}$   $n_i$  Intrinsic carrier density  $m^{-3}$   $n(E)$  Electron density per unit energy and per unit volume  $m^{-3}$   $n_0$  Electron density in thermal equilibrium  $m^{-3}$

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