















AlGaAs/GaAs	
(a) $AI_xGa_{1-x}As / GaAs QW structure$ $AI_xGa_{1-x}As$ $AI_xGa_{1-x}As$	b) Al _x Ga _{1-x} As / Al _y Ga _{1-y} As DH structure Al _x Ga _{1-x} As $Al_xGa_{1-x}As$
GaAs $Al_yGa_{1-y}As$ $(x > y)$ Fig. 7.8. Band diagrams of AlGaAs/GaAs structures suited for light emission in the redpart of the visible spectrum. (a) AlGaAs/GaAs quantum well (QW) structure with thinGaAs well. (b) AlGaAs/AlGaAs double heterostructure (DH) with AlGaAs active region.	
• The AlGaAs/GaAs system is suited for IR and red high-power LEDs.	
• AlGaAs DH-TS LEDs	
 The reliability of AlGaAs devices is lower than that of AlGaInP devices. High-Al-content AlGaAs layers are subjected to oxidation and corrosion, thereby lowering the device lifetime. Hydrolysis. 	
445.664 (Intro. LED) / Euijoon Yoon	9

























