

Chapter 4: The Electrical Properties of Materials

#	Section heading	Relevant in Ohring
4.1	The classification of materials based on their electrical conductivity	11.1 figure 11-3 omit section 11.2
4.2	Resistivity in metals	Figure 11-2 Section 11.3 Omit sect. 11.4 (thermal conductivity) Skim superconductivity (sect 11.5) Skim 11.6
4.3	Insulating solids and dielectric behavior	11.7 omit section 11.8
4.4	Intrinsic semiconductors	Read sections 12.1, 12.2.1.1
4.5	Doping and extrinsic semiconductors	12.2.1.2; figs 12-4 and 12-5 skim 12.2.2.2; 12.2.2.3 omit 12.2.4 skim 12.3.1
4.6	The p-n junction	12.3.2 omit 12.3.3
4.7	Transistors	12.4
4.8	The processing of semiconductor devices	12.5, 12.6