



5 Some of the energy bands of electrons in an intrinsic semiconductor at zero kelvin are illustrated in Fig. 5.1.

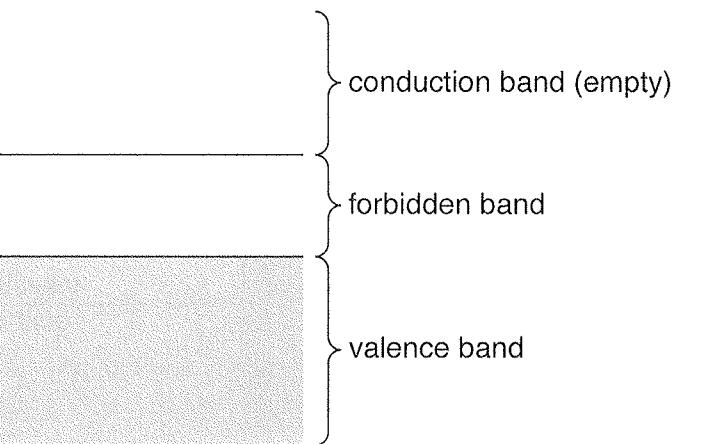


Fig. 5.1

Explain why, as the temperature rises, the resistance of a sample of the semiconductor decreases.