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The Sommerfeld free-electron theory of metals

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In this chapter we discuss the free-electron theory of metals, originally developed by Sommerfeld and others. The free-electron model, with its parabolic energy-wavevector dispersion curve, provides a reasonable description for conduction electrons in simple metals; it also may give useful guidelines for other metals with more complicated conduction bands. Because of the simplicity of the model and its density-of-states, we can work out explicitly thermodynamic properties, and in particular the specific heat and the thermionic emission. In the Appendices we summarize for a general quantum system the thermodynamic functions of more frequent use in statistical physics. The Fermi-Dirac and Bose-Einstein distribution functions for independent fermions and bosons are discussed; finally we obtain the modified Fermi-Dirac distribution function, in a model case of correlation among electrons in localized states.

1 Quantum theory of the free-electron gas

An electron in a crystal feels the potential energy due to all the nuclei and all the other electrons. The determination of the crystalline potential in specific materials is a rather demanding problem (see Chapters IV and V). However in several metals, it turns out reasonable to assume that the conduction electrons feel a potential which is constant throughout the sample; this model, suggested by Sommerfeld in 1928, is

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