



FIG. 6.2 Molar heat capacity at constant volume C_V and molar internal energy U (integrated molar heat capacity) as a function of temperature, from the Debye model. (The internal energy is divided by temperature to display the results in the same units as C_V .) (Values from Furukawa et al. 1972.) The Debye model is useful for estimating heat capacity and internal energy in many solids, as illustrated in the example. Tabulations of the data in this figure are given in Appendix A6.3; values of the Debye temperature θ_D are given for many elements in Appendix A6.1.