



Figure 18-1

The metamorphic facies plotted as a function of pressure and temperature (from various sources). The hornfels facies is occasionally subdivided into pyroxene hornfels, hornblende hornfels, and albite-epidote hornfels. Hornfels facies rocks are distinguished from higher-pressure facies mainly on the basis of texture. Compare Figure 17-9 for the relationships between general types of metamorphism and facies. [The melting curves for water-saturated granites and basalts are from W. C. Luth, R. H. Jahns, and O. F. Tuttle, 1964, *Jour. Geophys. Res.*, 69, Fig. 1; and H. S. Yoder, Jr., and C. E. Tilley, 1962, *Jour. Petrology*, 3, Fig. 33.]