Physics

For metals, α is positive and values of α for some metals at $T_0 = 0^{\circ}$ C are listed in Table 3.1.

The relation of Eq. (3.26) implies that a graph of $\rho_{\rm T}$ plotted against *T* would be a straight line. At temperatures much lower than 0°C, the graph, however, deviates considerably from a straight line (Fig. 3.9).

Equation (3.26) thus, can be used approximately over a limited range of *T* around any reference temperature T_0 , where the graph can be approximated as a straight line.

