

# ABSTRACT

Single wire measurements of the pressure dependence of the thermoelectric power were made hydrostatically to 8 Kb for chromel, alumel, copper and constantan and in a piston cylinder apparatus to 40 Kb for chromel, alumel, platinum, and platinum 10 percent rhodium. The temperature interval covered for the hydrostatic measurements was  $-195^{\circ}\text{C}$  to  $290^{\circ}\text{C}$  and for the piston cylinder measurements it was  $30^{\circ}\text{C}$  to  $380^{\circ}\text{C}$ . A detailed discussion is given of the pressure-temperature distribution within the piston cylinder cell. Pressure emf values are presented with an uncertainty of  $\pm 7$  percent.