$$\frac{dB_{T}}{dP} = \frac{dB_{S}}{dP} + \left(\frac{B_{S}}{B_{T}} - 1\right)$$
 (7)

where $\mathbf{B}_{\mathbf{S}}$ is the adiabatic bulk modulus. The "correction" term in this equation is very small for tantalum.

Propagation of maximum errors analysis was employed because there were not enough runs to calculate a meaningful standard deviation. The pressure derivatives, dC_{1}/dP , were found to have a 4 per cent uncertainty except for the $(C_{11}-C_{12})/2$ mode, for which the uncertainty on this basis was 7.5 per cent.