Table V

Pressure Derivatives of the Elastic Constants of Silver

A. Pressure derivatives of the normal and shear constants for the [110] direction compared with those from Daniels and Smith[6].

| Derivative | This Work | Comparison | Difference |
|---|---|---|---|
| $\frac{dC^n_{110}}{dP}$ | 8.70 | 8.70 | 0% |
| $\frac{dC}{dP}$ | 2.37 | 2.31 | 2% |
| $\frac{dC'}{dP}$ | 0.636 | 0.639 | -1% |
| $\frac{dB_s}{dP}$ | 6.12 | 6.18 | -1% |

B. The directly measured pressure derivatives of the normal and shear constants for the [100] and [111] directions compared with those computed from our measurements on the [110] crystal.

| Derivative | Measurement | From [110] | Difference |
|---|---|---|---|
| $\frac{dC^n_{100}}{dP}$ | 6.82 | 6.97 | -2% |
| $\frac{dC^\tau_{100}}{dP}$ | 2.30 | 2.37 | -3% |
| $\frac{dC^n_{111}}{dP}$ | 9.60 | 9.27 | 4% |
| $\frac{dC^\tau_{111}}{dP}$ | 1.25 | 1.21 | 3% |