(101) plane and
$$[010]$$
.

$$l = cos \frac{\pi}{4} [cos \theta - sin \theta sin \theta]$$

$$m = sin \theta cos \theta$$

$$n = cos \frac{\pi}{4} [cos \theta + sin \theta sin \theta]$$

Graphs G, H, and I display the variation of the elastic constants of silver in the neighborhood of a [111] pole. Θ is the angle between the direction of propagation and [111], and \emptyset is the angle between the projection of the direction of propagation on the (111) plane and $[\bar{1}\bar{1}2]$.

$$l = \frac{\cos \theta}{\sqrt{3}} - \frac{\sin \theta \cos \phi}{\sqrt{6}} + \frac{\sin \theta \sin \phi}{\sqrt{2}}$$

$$m = \frac{\cos \theta}{\sqrt{3}} - \frac{\sin \theta \cos \phi}{\sqrt{6}} - \frac{\sin \theta \sin \phi}{\sqrt{2}}$$

$$n = \frac{\cos \theta}{\sqrt{3}} + \frac{2 \sin \theta \cos \phi}{\sqrt{6}}$$

The numerical values from which the graphs were plotted were obtained with a Burroughs '220' computer. The programing of the problem was coded so the values of $C_{\prime\prime}$, C', and C may easily be changed and the process repeated with minimum effort for cubic materials other than silver.