$$l = \cos \frac{\pi}{4} [\cos \theta - \sin \theta \sin \phi]$$
$$m = \sin \theta \cos \phi$$
$$n = \cos \frac{\pi}{4} [\cos \theta + \sin \theta \sin \phi]$$

Graphs G, H, and I display the variation of the elastic constants of silver in the neighborhood of a [11] pole. Θ is the angle between the direction of propagation and [11], and \not is the angle between the projection of the direction of propagation on the (111) plane and [112].

$$\begin{aligned} \mathcal{L} &= \frac{\cos \Theta}{\sqrt{3}} - \frac{\sin \Theta \cos \emptyset}{\sqrt{6}} + \frac{\sin \Theta \sin \emptyset}{\sqrt{2}} \\ m &= \frac{\cos \Theta}{\sqrt{3}} - \frac{\sin \Theta \cos \emptyset}{\sqrt{6}} - \frac{\sin \Theta \sin \emptyset}{\sqrt{2}} \\ n &= \frac{\cos \Theta}{\sqrt{3}} + \frac{2 \sin \Theta \cos \emptyset}{\sqrt{5}} \end{aligned}$$

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^{\prime} , and C may easily be changed and the process repeated with minimum effort for cubic materials other than silver.

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