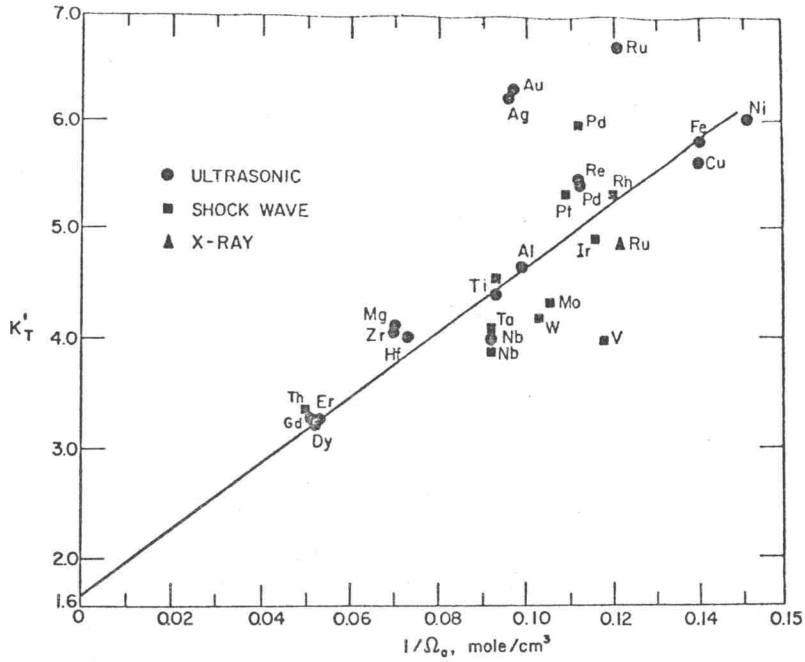

Figure 1. K'_T versus $1/\Omega_o$ for h.c.p., f.c.c., and b.c.c. metals.

Table 1

Values of dK_S/dP and dK_T/dP derived from the hydrostatic pressure derivatives of the elastic constants of h.c.p. and f.c.c. metals (in order of decreasing molar volume)

Metal	Structure	Molar volume, cm^3	dK_S/dP	dK_T/dP	References
Gd	h.c.p.	19.94	3.32	∿3.32	[3]
Dy	h.c.p.	18.99	3.21	3.23	[3]
Er	h.c.p.	18.46	3.30	3.26	[3]
Zr	h.c.p.	14.02	4.08	4.11	[4]
Mg	h.c.p.	14.00	4.06	4.16	[5]
Hf	h.c.p.	13.45	4.03[a]	4.04[a]	
Ti	h.c.p.	10.63	4.31	4.35	[6]
Ag	f.c.c.	10.27	6.18		[7]
Au	f.c.c.	10.22	6.43		[7]
Al	f.c.c.	10.00	5.19	5.31	[5]
Pd	f.c.c.	8.88		5.42	[9]
Re	h.c.p.	8.86		5.43[b]	[8]
Ru	h.c.p.	8.18	6.62[a]	6.66[a,c]	
Fe	b.c.c.	7.09	5.97		[10]
Cu	f.c.c.	7.11	5.84		[11]
Cu	f.c.c.	7.11	5.59		[7]
Ni	f.c.c.	6.59	6.07		[12]

[a] Unpublished.

[b] dK_T/dP value based on x-ray diffraction data is 2.43 ± 1.33 [18].

[c] dK_T/dP value calculated from x-ray diffraction data [19] is 4.7 ± 2.2.