

Explanation of Symbols:

- Δ designates the elasticity data obtained on olivine rock-samples.
- $\square$ designates the elasticity data obtained on gem-quality olivine single-crystals.
- $\bigcirc$ designates the elasticity data obtained on synthetic polycrystalline olivine samples. Our data (RE: JGR 75, 7353-7361, 1970) at MIT are shown with the symbols ($\odot$); Geophys. J. R. Astr. Soc. 25, 511-538 (1971).

Reference Code:

- A: L.H. Adams (1931), Gerl. Beitr. Geophysik, 31, 315-321.
- B: F. Birch (1960a,b), JGR, 65, 1083-1102 and JGR, 66, 2199-2224.
- C: N.I. Christensen (1966), JGR, 71, 5921-5931.
- F: H. Fujisawa (1970), Trans AGU, 51, 418 (Abstract only).
- G: E.K. Graham (1970), Geophys. J., 20, 285-302.
- GB: E.K. Graham and G.R. Barsch (1969), JGR, 74, 5949-5960.
- KA: M. Kumasawa and O.L. Anderson (1969), JGR, 74, 5961-5972.
- KM: H. Kanamori and H. Mizutani (1965), Bull. Earthquake Res. Ins., (Japan), 43, 173-194.
- MIHDB: N. Mao, J. Ito, J.F. Hays, J. Drake, and F. Birch (1970), JGR, 75, 4071-4076.
- MS: S.P. Marsh and H. Sheibⁿerg (1969), AEC/ARPA Tech. Rept. no. 1124 (Los Alamos Scientific Laboratories).
- S: G. Simmons (1964), JGR, 69, 1123-1130.
- SA: E. Schreiber and O.L. Anderson (1967), JGR, 72, 762-764 and for corrections, see JGR, 72, 3751.
- SA: N. Soga and O.L. Anderson (1967), J. Am. Ceram. Soc., 50, 239-242.
- ASLS: O.L. Anderson, E. Schreiber, R.C. Liebermann, and N. Soga, (1968), Rev. Geophys., 6, 491-524.

Note:

The shaded area corresponds to the maximum experimental errors assigned by D. H. Chung. The data points within the shaded area are acceptable, and they may be used in geophysical discussions.