

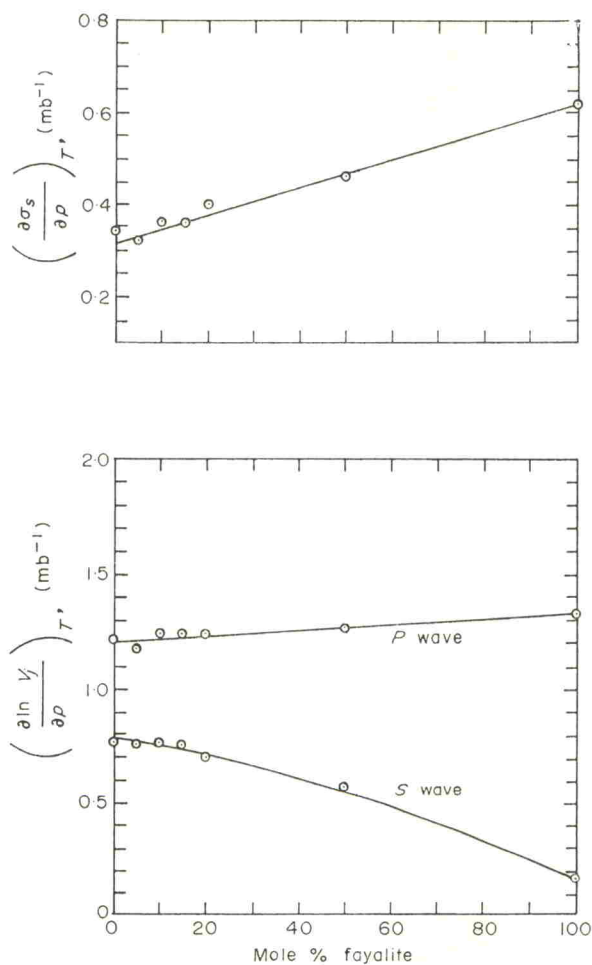


FIG. 2. Pressure coefficient of *P* and *S* wave velocities and pressure derivative of Poisson's ratio as a function of (Fe/Mg) ratio in olivine.

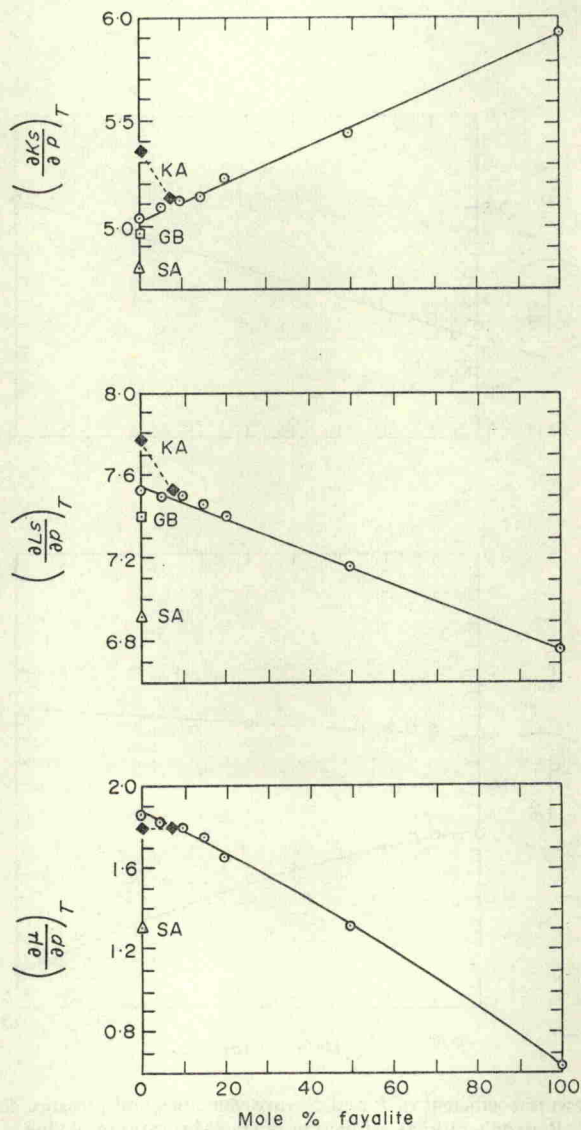


FIG. 3. Pressure derivatives of compressional modulus L_s , shear modulus μ , and the adiabatic bulk modulus K_s of olivine as a function of (Fe/Mg) ratio; comparison with literature data. ($\triangle$) indicates the datum of Schreiber & Anderson (SA, 1967), ($\square$) indicates the datum of Graham & Barsch (GB, 1969), and ($\blacklozenge$) indicates the data points of Kumasawa & Anderson (KA, 1969); ($\circ$) are the present work.