

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.

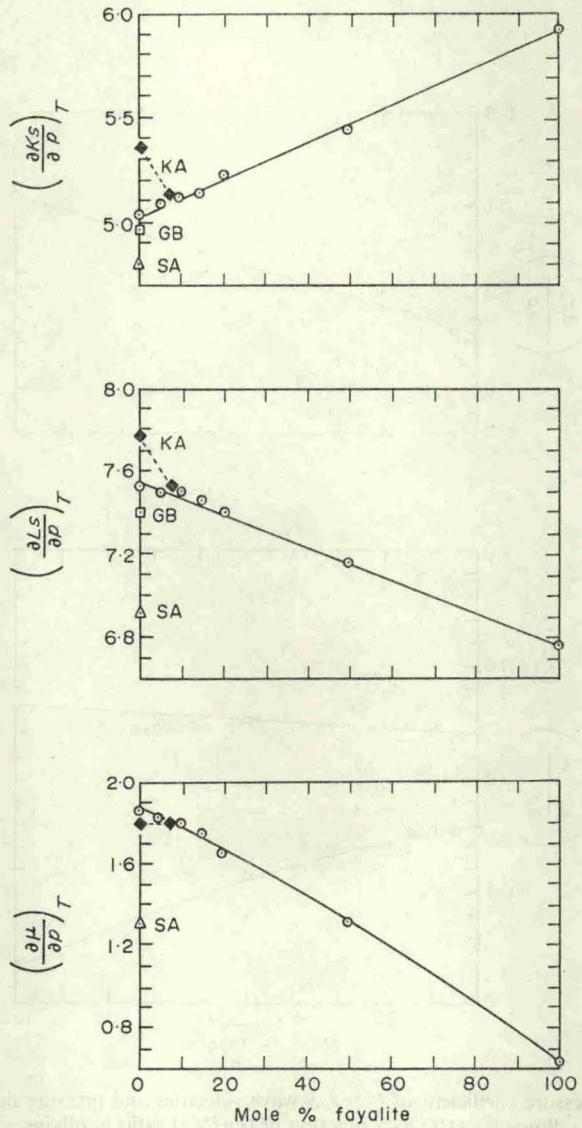


FIG. 3. Pressure derivatives of compressional modulus  $L_s$ , shear modulus  $\mu$ , and the adiabatic bulk modulus  $K_s$  of olivine as a function of (Fe/Mg) ratio; comparison with literature data. ( $\Delta$ ) indicates the datum of Schreiber & Anderson (SA, 1967), ( $\square$ ) indicates the datum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