

This equation was tried only because it gives negative deviations from linearity. A summary of the results of this interpolation is also presented in Table III. The simple reciprocal relation gives the best overall fit of any of the interpolation techniques tried; however, the Lindsay-Bromley relation gives smaller deviations in some cases at the lowest and highest pressures investigated. Similar results were obtained when the relation was applied to Junk's (11) data on ethylene-carbon dioxide mixtures. However, large ( $\sim 30\%$ ) deviations were found when it was applied to Junk's ethylene-nitrogen data.

Spot checks were made using Lenoir, Junk, and Comings' correlation with Kay's rule. The deviations obtained were large in some cases, and the method cannot be recommended over the simple reciprocal interpolation.