## The Conversion of X-Ray Intensity Ratios to Composition Ratios in the Electron Probe Analysis of Small Particles Using Mineral Standards

M. A. F. Pyman\*, J. W. Hillyer† and A. M. Posner\*

**Abstract:** X-ray intensity ratios of Si/Al, Si/Fe, and Al/Fe in micron-sized particles of geochemical standards were found to vary linearly with the composition ratio. The same linear relationship was found for samples of the clay minerals kaolinite and illite.

**Key Words:** Albite • Biotite • Illite • Kaolinite • Orthoclase • Phlogopite

Clays and Clay Minerals; August 1978 v. 26; no. 4; p. 296-298; DOI: <a href="mailto:10.1346/CCMN.1978.0260407">10.1346/CCMN.1978.0260407</a> © 1978, The Clay Minerals Society (<a href="mailto:www.clays.org">www.clays.org</a>)

<sup>\*</sup> Department of Soil Science and Plant Nutrition, University of Western Australia, Nedlands 6009, Western Australia

† Electron Microscopy Centre, University of Western Australia, Nedlands 6009, Western Australia