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Chapter Outline: Phase Diagrams

Like those for any other class of materials, experimental phase diagrams for ceramic systems are based on observations of phase existence or coexistence, reactions, and transitions. Because ceramic systems exhibit a broad range of physical behavior, several

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A phase diagram shows the different phases, primarily solid and liquid, and how they change with temperature. In the binary phase diagram for silica and alumina (1), the liquid mixture is at the top, the solid mixture at the bottom, and below the green "liquidus" line, solid silica plus liquid on the left and solid mullite ($3\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2$) plus liquid on the right.

Using Phase Equilibrium Diagrams in Ceramic

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The original compilation of phase diagrams was made by F. P. Hall and Herbert Insley and was published as the October, 1933, issue of The Journal of The American Ceramic Society. These authors then followed with a supplement, published as the April, 1938, issue of the same Journal, and with another complete compilation which was published as Part I1 of the November, 1947, issue of this Journal.

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