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A liquidus curve separates a field of a single liquid from a field in which a solid and a liquid coexist in equilibrium. The first step in analyzing a phase diagram is to label the fields. The first rule is to draw a line across each field - a two-phase tie line or a Schrinemacher line.

*An Introduction to Phase Equilibrium -  
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*Figure 3.16 from Introduction to Phase Equilibria in ...*

PHASE CHANGES PHASE TERMINOLOGY A phase diagram is a graph showing values of applied pressure and temperature at which equilibrium exists. A phase boundary is a line on a phase

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diagram representing values of applied pressure and temperature at which equilibrium exists.

## *LECTURE 5 PHASE EQUILIBRIA*

Introduction to Phase Equilibria in Ceramic Systems. Hummel. CRC Press, May 31, 1984 - Science - 400 pages. 1 Review. 5: TERNARY SYSTEMS WITHOUT SOLID SOLUTION -- I. Introduction -- II. Isoplethal...

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*1.1 Introduction - Phase Diagrams and Phase Equilibria ...*

3. PHASE RULE AND EQUILIBRIUM The phase rule, also known as the Gibbs phase rule, relates the number of components and the number of degrees of freedom in a system at equilibrium by the formula  $F = C - P + 2$  [1] where  $F$  equals the number of degrees of freedom or the number of independent

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Introduction It was first presented by Gibbs

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in 1875. It is very useful to understand the effect of intensive variables, such as temperature, pressure, or concentration, on the equilibrium between phases as well as between chemical constituents. It is used to deduce the number of degrees of freedom( $f$ ) for a system. Sometimes called: "the variance of the system".

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*Introduction It was ...*

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properties of two systems. In most cases, the calculated values agree ...

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