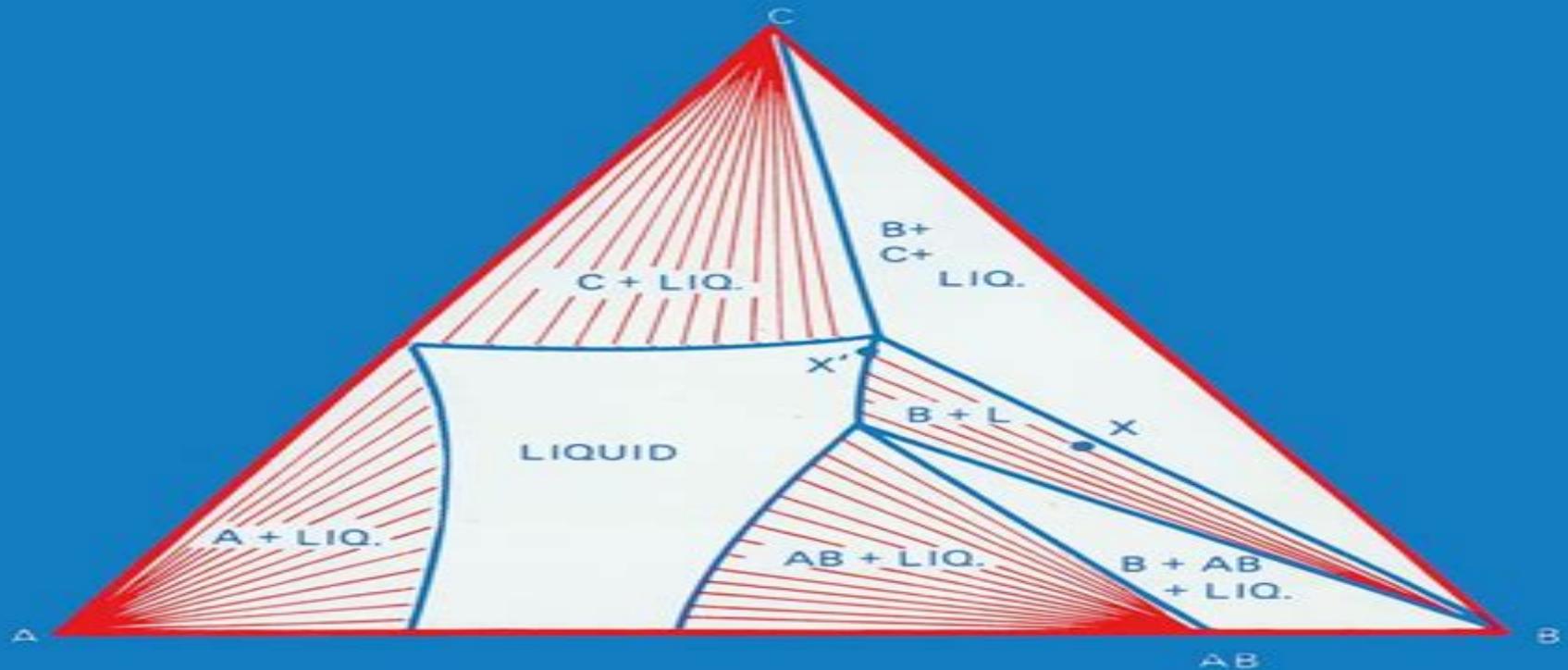


Introduction to

PHASE EQUILIBRIA IN CERAMIC SYSTEMS



Floyd A. Hummel

Introduction To Phase Equilibria In Ceramic Systems

Iowa State University



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physical structures and the electrical thermal and other properties that are dependent on bonding type The second part Chapters 11 to 16 deals with those factors that are determined by microstructure such as fracture and fatigue and thermal dielectric magnetic and optical properties Linking the two sections is Chapter 10 which describes sintering grain growth and the development of microstructure Fundamentals of Ceramics is ideally suited to senior undergraduate and graduate students of materials science and engineering and related subjects

Methods for Phase Diagram Determination Ji-Cheng Zhao, 2011-05-05 Phase diagrams are maps materials scientists often use to design new materials They define what compounds and solutions are formed and their respective compositions and amounts when several elements are mixed together under a certain temperature and pressure This monograph is the most comprehensive reference book on experimental methods for phase diagram determination It covers a wide range of methods that have been used to determine phase diagrams of metals ceramics slags and hydrides Extensive discussion on methodologies of experimental measurements and data assessments Written by experts around the world covering both traditional and combinatorial methodologies A must read for experimental measurements of phase diagrams NBS Special Publication, 1977

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High Temperature Phase Equilibria and Phase Diagrams Chu-kun Kuo, Zuxiang Lin, 1990 High temperature phase equilibria studies play an increasingly important role in materials science and engineering It is especially significant in the research into the properties of the material and the ways in which they can be improved This is achieved by observing equilibrium and by examining the phase relationships at high temperature The study of high temperature phase diagrams of nonmetallic systems began in the early 1900s when silica and mineral systems containing silica were focussed upon Since then technical ceramics emerged and more emphasis has been placed on high temperature studies This book covers many aspects from the fundamentals of phase diagrams experimental and computational methods applications to the

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