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Nota di contenuto	Hydrothermal Experimental Data; Contents; CD Table of Contents; Foreword; Preface; Acknowledgements; 1: Phase Equilibria in Binary and Ternary Hydrothermal Systems; 1.1 INTRODUCTION; 1.2 EXPERIMENTAL METHODS FOR STUDYING HYDROTHERMAL PHASE EQUILIBRIA; 1.2.1 Methods of visual observation; 1.2.2 Methods of sampling; 1.2.3 Methods of quenching; 1.2.4 Indirect methods; 1.3 PHASE EQUILIBRIA IN BINARY SYSTEMS; 1.3.1 Main types of fluid phase behavior; 1.3.2 Classification of complete phase diagrams; 1.3.3 Graphical representation and experimental examples of binary phase diagrams 1.4 PHASE EQUILIBRIA IN TERNARY SYSTEMS1.4.1 Graphical representation of ternary phase diagrams; 1.4.2 Derivation and classification of ternary phase diagrams; REFERENCES; 2: pVTx

Properties of Hydrothermal Systems; 2.1 BASIC PRINCIPLES AND DEFINITIONS; 2.2 EXPERIMENTAL METHODS; 2.2.1 Constant volume piezometers (CVP); 2.2.2 Variable volume piezometers (VVP); 2.2.3 Hydrostatic weighing technique (HWT); 2.2.4 Vibrating tube densimeter (VTD); 2.2.5 Synthetic fluid inclusion technique; 2.3 THEORETICAL TREATMENT OF pVTx DATA; 2.3.1 Excess volume; 2.3.2 Models for the standard partial molar volume  
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Sommario/riassunto

Hydrothermal Properties of Materials: Experimental Data on Aqueous Phase Equilibria and Solution Properties at Elevated Temperatures and Pressures is designed for any scientists and engineer who deals with hydrothermal investigations and technologies. The book is organized into eight chapters, each dealing with a key physical property of behavior of solutions, so that a reader can obtain information on: hydrothermal experimental methods; available experimental data and the main features of properties behavior in a wide range of temperatures and pressures; and possible ways of experime