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Descrizione fisica	1 online resource (197 pages)
Collana	Advances in Management Accounting ; ; Volume 32
Disciplina	658.1511
Soggetti	Managerial accounting Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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2. Record Nr.	UNINA9910830907703321
Autore	Ivanov Dmitry Yu
Titolo	Critical behavior of non-ideal systems. // Dmitry Yu. Ivanov
Pubbl/distr/stampa	Weinheim, [Germany] : , : Wiley-VCH Verlag GmbH & Co. KGaA, , 2008 ©2008
ISBN	1-282-02143-5 9786612021435 3-527-62398-1 3-527-62399-X
Descrizione fisica	1 online resource (273 p.)
Disciplina	530.474 541
Soggetti	Critical phenomena (Physics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Critical Behavior of Non-Ideal Systems; Foreword to the Russian Edition; Foreword to the English Edition; Contents; Editor's Preface; Introduction; Part I The Statics of Critical Phenomena; 1 Statics of Critical Phenomena in the Nearest Vicinity of the Critical Point: Experimental Manifestation; 1.1 Short History of Critical Phenomena Research; 1.2 Peculiarities of the Experiment in the Nearest Vicinity of the Critical Point; 1.2.1 ""Experimental"" Critical Indices; 1.2.2 Determination of Critical Parameters; 1.2.3 Purity of Matter; 1.2.4 Determination of Critical Density 1.2.5 Determination of Critical Temperature and Pressure 1.3 Experiments Near the Critical Point in the Presence of the Gravitational Field; 1.3.1 The Gravitational Effect; 1.3.2 The Coexistence Curve; 1.3.3 Singularity of the Diameter of the Coexistence Curve; 1.3.4 The Critical Isotherm; 1.3.5 Isothermal Compressibility Along the Critical Isochore; 1.3.6 (p - T)-Dependence Along the Critical Isochore; 2 Critical Indices and Amplitudes; 2.1 Phenomenological Model of the Critical Behavior of Nonideal Systems; 2.2 Critical Indices: External Field Effects; 2.2.1 Critical Index 2.2.1.1 The Gravitational Effect 2.2.1.2 The Influence of Surface Forces;

2.2.1.3 The Influence of Fields: Comparison with Magnetic Materials; 2.2.1.4 Comparison with Metals; 2.2.2 Critical Index ; 2.2.2.1 The Influence of Gravitation; 2.2.2.2 The Influence of Coulomb Forces; 2.2.3 Critical Index ; 2.2.3.1 The Influence of Gravitation; 2.2.4 Critical Index ; 2.2.4.1 The Influence of Gravitation; 2.2.5 Critical Index of the Correlation Radius ; 2.2.6 Micellar Systems; 2.2.7 Influence of Boundaries: Finite-Size Effects; 2.2.8 Results and Consequences; 2.2.9 Some Unresolved Problems

2.3 Critical Indices and Amplitudes 2.3.1 Universal Relations Between Critical Indices; 2.3.2 Universal Relations Between Critical Amplitudes; 2.3.3 Correlation Between Critical Index and Critical Amplitude Values; 3 Thermodynamics of the Metastable State; 3.1 The ""Pseudospinodal"" Hypothesis; 3.1.1 The History of the Occurrence of the ""Pseudospinodal Hypthesis""; 3.1.2 The Universal ""Pseudospinodal""; 3.2 The van der Waals Spinodal; 3.2.1 First-Order Stability Conditions; 3.2.2 Higher Order Stability Conditions; 3.2.3 Approaching the Instability Points; 3.2.4 The Instability Area

3.3 Thermodynamic Analysis of the ""Pseudospinodal"" Hypothesis 3.3.1 Physics and Geometry; 3.3.2 Mathematical Foundation; 3.3.3 Thermodynamic Consequences; 3.4 Experimental Test of the ""Pseudospinodal"" Hypothesis; Part II The Dynamics of Critical Phenomena; 4 Foundations of Critical Dynamics; 4.1 Introduction; 4.2 Critical Fluctuations: Light Scattering Intensity; 4.3 Kinetics of Critical Fluctuations: Light Scattering Spectrum; 4.4 Dynamic Critical Indices and Universal Amplitude; 4.5 Scattering of Higher Orders; 5 Critical Opalescence: Modeling; 5.1 Introduction

5.2 Techniques and Experimental Methods

Sommario/riassunto

This comprehensive systematic overview covers the static and dynamic critical phenomena of real, non-ideal fluids in the nearest vicinity of the critical point, offers new approaches and presents research results on the highest level. Including both theoretical and experimental researches, it also deals with the critical opalescence as phenomenon with continuously growing scattering multiplicity upon approaching the critical point.
