1. Record Nr. UNISA996392848503316

Autore	Nixon Anthony
Titolo	Elizaes memoriall. King Iames his arriuall. And Romes downefall [[electronic resource]]
Pubbl/distr/stampa	London, : Printed T[homas] C[reede] for Iohn Baylie, and are to be sold at his shop neare the litle north doore of Paules, 1603
Descrizione fisica	[30] p
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Dedication signed: A.N., i.e. Anthony Nixon. In verse. Printer's name from STC. Signatures: A-Dâ´ (-A1). The last leaf is blank. Reproduction of the original in the Henry E. Huntington Library and Art Gallery.
Sommario/riassunto	eebo-0113

2. Record Nr. UNISA996538660803316

Autore	Umantsev Alexander
Titolo	Field Theoretic Method in Phase Transformations [[electronic resource] /] / by Alexander Umantsev
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-29605-2
Edizione	[2nd ed. 2023.]
Descrizione fisica	1 online resource (504 pages)
Collana	Lecture Notes in Physics, , 1616-6361 ; ; 1016
Disciplina	530.474
Soggetti	Solid state physics Condensed matter Materials science Mechanics, Applied Solids Mathematics Electronic Devices Phase Transitions and Multiphase Systems Materials Science Solid Mechanics Applications of Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	PART I: Classical Theories of Phase Equilibria and Transformations -- Chapter 1: Stability of Systems and States -- Chapter 2: Thermodynamic Equilibrium of Phases -- Chapter 3: Examples of Phase Transitions -- Chapter 4: Isothermal Kinetics of Phase Transformations -- Chapter 5: Coarsening of Second Phase Precipitates -- Chapter 6: Spinodal Decomposition in Binary Systems -- Chapter 7: Thermal Effects in Kinetics of Phase Transformations -- PART II: The Method -- Chapter 8: Landau Theory of Phase Transitions -- Chapter 9: Heterogeneous Equilibrium Systems -- Chapter 10: Dynamics of Homogeneous Systems -- Chapter 11: Evolution of Heterogeneous Systems -- Chapter 12: Thermodynamic Fluctuations -- Chapter 13: Multi-Physics Coupling: Thermal Effects of Phase Transformations --

Chapter 14: Validation of the Method -- PART III: Applications -- Chapter 15: Conservative Order Parameter: Theory of Spinodal Decomposition in Binary Systems -- Chapter 16: Complex Order Parameter: Ginzburg-Landau's Theory of Superconductivity -- Chapter 17: Multicomponent Order Parameter: Crystallographic Phase Transitions -- Chapter 18: "Mechanical" Order Parameter -- Chapter 19: Continuum Models of Grain Growth.

Sommario/riassunto

This book describes a novel and popular method for the theoretical and computational study of phase transformations and materials processing in condensed and soft matter. The field theoretic method for the study of phase transformations in material systems, also known as the phase-field method, allows one to analyze different stages of transformations within a unified framework. It has received significant attention in the materials science community due to many recent successes in solving or illuminating important problems. In a single volume, this book addresses the fundamentals of the method starting from the basics of the field theoretic method along with its most important theoretical and computational results and some of the most advanced recent results and applications. Now in a revised and expanded second edition, the text is updated throughout and includes material on the classical theory of phase transformations. This book serves as both a primer in the area of phase transformations for those new to the field and as a guide for the more seasoned researcher. It is also of interest to historians of physics.