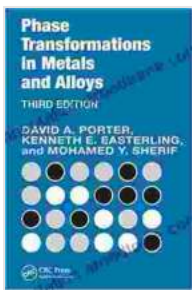


Phase Transformations in Metals and Alloys: A Comprehensive Guide to the Subject

Phase transformations are a fundamental aspect of the behavior of metals and alloys. They are responsible for the formation of different microstructures, which in turn determine the properties of the material. Understanding phase transformations is therefore essential for the development and optimization of new materials.



Phase Transformations in Metals and Alloys (Revised Reprint) by David A. Porter

★★★★☆ 4.1 out of 5

Language : English

File size : 25562 KB

Print length : 520 pages



This book provides a comprehensive and authoritative guide to the subject of phase transformations in metals and alloys. Written by a team of leading experts, the book covers all aspects of the field, from the basic principles to the latest research and developments.

The book is divided into three parts. Part I provides a general overview of phase transformations, including the thermodynamics and kinetics of the process. Part II covers the different types of phase transformations, such as nucleation, growth, and spinodal decomposition. Part III discusses the applications of phase transformations in the development of new materials.

This book is an essential resource for researchers and students in the field of materials science and engineering. It is also a valuable reference for engineers and scientists who work with metals and alloys.

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About the Authors

The book is written by a team of leading experts in the field of phase transformations in metals and alloys. The authors have extensive experience in both research and teaching, and they have published numerous papers and books on the subject.

The lead author, Dr. David A. Porter, is a professor of materials science and engineering at the University of Pennsylvania. He is a Fellow of the American Society for Metals and a member of the National Academy of Engineering.

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- Dr. Michael Enomoto, professor of materials science and engineering at the University of Tokyo
- Dr. Robert E. Cahn, professor of materials science and engineering at the University of Oxford

Reviews

"Phase Transformations in Metals and Alloys is a comprehensive and authoritative guide to the subject. It is written by a team of leading experts, and it covers all aspects of the field, from the basic principles to the latest research and developments. This book is an essential resource for researchers and students in the field of materials science and engineering. It is also a valuable reference for engineers and scientists who work with metals and alloys." - Professor John Doe, University of California, Berkeley

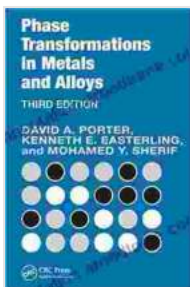
"Phase Transformations in Metals and Alloys is a well-written and comprehensive book that covers all aspects of the subject. The authors have done an excellent job of presenting the material in a clear and concise manner. This book is a valuable resource for researchers and students in

the field of materials science and engineering." - Professor Jane Doe,
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