

Physical Metallurgy Principles

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physical metallurgy is one of the main fields of metallurgical science dealing with the development of the microstructure of metals in order to achieve desirable properties required in technological applications physical metallurgy principles and design focuses on the processing structure properties triangle as it applies to metals and alloys it introduces the

fundamental principles of physical metallurgy and the design methodologies for alloys and processing the first part of the book discusses the structure and change of structure through phase transformations the latter part of the book deals with plastic deformation strengthening mechanisms and mechanical properties as they relate to structure the book also includes a chapter on physical metallurgy of steels and concludes by discussing the computational tools involving computational thermodynamics and kinetics to perform alloy and process design

this comprehensive student friendly text is intended for use in an introductory course in physical metallurgy and is designed for all engineering students at the junior or senior level the approach is largely theoretical but all aspects of physical metallurgy and behavior of metals and alloys are covered the treatment used in this textbook is in harmony with a more fundamental approach to engineering education an extensive revision has been done to insure that the content remains the standard for metallurgy engineering courses worldwide important notice media content referenced within the product description or the product text may not be available in the ebook version

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