

Metals Handbook Metallography And Microstructures

Metallography and Microstructure in Ancient and Historic Metals
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David A. Scott provides a detailed introduction to the structure and morphology of ancient and historic metallic materials. Much of the scientific research on this important topic has been inaccessible, scattered throughout the international literature or unpublished. This volume, although not exhaustive in its coverage, fills an important need by assembling much of this information in a single source. Jointly published by the GCI and the J. Paul Getty Museum, the book deals with many practical matters relating to the mounting, preparation, etching, polishing, and microscopy of metallic samples and includes an account of the way in which phase diagrams can be used to assist in structural interpretation. The text is supplemented by an extensive number of microstructural studies carried out in the laboratory on ancient and historic metals. The student beginning the study of metallic materials and the conservation scientist who wishes to carry out structural studies of metallic objects of art will find this publication quite useful.

You get more than 60 articles, 3263 micrographs and illustrations, and mini atlases of the microstructures of major industrial metals and alloys. The principles and practice of optical, scanning electron, and transmission electron microscopy are discussed in detail. More than 30 articles present how-to information on specific preparation techniques for specimens of most industrial metals and

alloys contents include metallographic techniques metallographic techniques and microstructures specific metals and alloys structures

this book provides a solid overview of the important metallurgical concepts related to the microstructures of irons and steels and it provides detailed guidelines for the proper metallographic techniques used to reveal capture and understand microstructures this book provides clearly written explanations of important concepts and step by step instructions for equipment selection and use microscopy techniques specimen preparation and etching dozens of concise and helpful metallographic tips are included in the chapters on laboratory practices and specimen preparation the book features over 500 representative microstructures with discussions of how the structures can be altered by heat treatment and other means a handy index to these images is provided so the book can also be used as an atlas of iron and steel microstructures

an improved procedure based on the intercept method of measuring the grain size of single phase microstructures has been developed that provides a quantitative description of the grain size yet is fast the procedure combines the statistical advantage of using large numbers with the advantage of interpreting the data as a normal distribution as verified by the chi square test application of the procedure to ferritic microstructures representative of best and worst case conditions indicates that accuracies on the order of 3 percent at a 95 percent confidence level can be achieved in addition the procedure is sensitive enough to distinguish a randomly mixed duplex grain structure the measurements associated with a two phase microstructure can be more precisely quantified through determination of volume fractions using a pp measurement based on the use of an appropriate grid network the coefficient of variation statistic and the poisson distribution the analysis is demonstrated for an a priori system for which the percent accuracy and confidence level can be specified for the volume fraction measurement simply from calculation of the average value for pp

this book is a comprehensive guide to the compositions properties processing performance and applications of nickel cobalt and their alloys it includes all of the essential information contained in the asm handbook series as well as new or updated coverage in many areas in the nickel cobalt and related industries

this handbook is a comprehensive guide to the selection and applications of copper and copper alloys which constitute one of the largest and most diverse families of engineering materials the handbook includes all of the essential information contained in the asm handbook series as well as important reference information and data from a wide variety of asm publications and industry sources

the aim of this book is to show examples of the application of these principles to calculate mean values and the confidence intervals for a number of important microstructural features knowledge of the accuracy of the experimental values of the microstructural parameters is essential for their valid interpretation and application it is assumed that the reader is familiar with the application of statistical methods to data analysis but the essentials are summarised in the appendix book jacket

these volumes cover the properties processing and applications of metals and nonmetallic engineering materials they are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria

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