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remarkable versatility of carbon steels. This is, in turn, an indication of why carbon steels have been the mainstay structural material of engineering practice for three millennia. Light microscopy is, of course, not the only technique available for investigating the structure of metals. In fact, it only occupies the base level of an expanding pyramid of techniques of increasing

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published by ASM International. One of his more novel projects involved investigating the metallurgy of the cast iron cannons that had been jettisoned from Captain Cook's vessel, Endeavor, in 1770 when it ran aground on the Great Barrier Reef.

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They include mild steels, carbon-manganese and niobium- and vanadium-containing steels, and high-strength low-alloy steels. Chapter 5 discusses the composition, microstructure, and properties of these workhorse materials and explains how to identify the cause of production-related issues such as lamellar tearing and ferrite-pearlite banding.

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Light Microscopy of Carbon Steels Details With a wealth of micrographs and the explanatory text to make them really useful, this book is a "must have" reference for all persons working irons and steels. Light Microscopy of Carbon Steels - Knovel

The processing-microstructure-property relationships in steels continue to present challenges to researchers because of the complexity of phase transformation reactions and the wide spectrum of microstructures and properties achievable. This major two-volume work summarises the current state of research on phase transformations in steels and its implications for the emergence of new steels with enhanced engineering properties. Volume 1 reviews fundamentals and

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diffusion-controlled phase transformations. After a historical overview, chapters in part one discuss fundamental principles of thermodynamics, diffusion and kinetics as well as phase boundary interfaces. Chapters in part two go on to consider ferrite formation, proeutectoid ferrite and cementite transformations, pearlite formation and massive austenite-ferrite phase transformations. Part three discusses the mechanisms of bainite transformations, including carbide-containing and carbide-free bainite. The final part of the book considers additional driving forces for transformation including nucleation and growth during austenite-to-ferrite phase transformations, dynamic strain-induced ferrite transformations (DIST) as well as the effects of magnetic fields and heating rates. With its distinguished editors and distinguished international team of contributors, the two volumes of Phase transformations in steels is a standard reference for all those researching the properties of steel and developing new steels in such areas as automotive engineering, oil and gas and energy production. Discusses the fundamental principles of thermodynamics, diffusion and kinetics Considers various transformations, including ferrite formation, proeutectoid ferrite and cementite transformations Considers additional driving forces for transformation including nucleation and growth during austenite-to-ferrite phase transformations

The second edition of the Handbook of Induction Heating reflects the number of substantial advances that have taken place over the last decade in theory, computer modeling, semi-conductor power supplies, and process technology of induction heating and induction heat treating. This edition continues to be a synthesis of information, discoveries, and technical insights that have been accumulated at Inductoheat Inc. With an emphasis on design and implementation, the

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newest edition of this seminal guide provides numerous case studies, ready-to-use tables, diagrams, rules-of-thumb, simplified formulas, and graphs for working professionals and students.

Introduces readers to the enlightening world of the modern light microscope There have been rapid advances in science and technology over the last decade, and the light microscope, together with the information that it gives about the image, has changed too. Yet the fundamental principles of setting up and using a microscope rests upon unchanging physical principles that have been understood for years. This informative, practical, full-colour guide fills the gap between specialised edited texts on detailed research topics, and introductory books, which concentrate on an optical approach to the light microscope. It also provides comprehensive coverage of confocal microscopy, which has revolutionised light microscopy over the last few decades. Written to help the reader understand, set up, and use the often very expensive and complex modern research light microscope properly, *Understanding Light Microscopy* keeps mathematical formulae to a minimum—containing and explaining them within boxes in the text. Chapters provide in-depth coverage of basic microscope optics and design; ergonomics; illumination; diffraction and image formation; reflected-light, polarised-light, and fluorescence microscopy; deconvolution; TIRF microscopy; FRAP & FRET; super-resolution techniques; biological and materials specimen preparation; and more. Gives a didactic introduction to the light microscope Encourages readers to use advanced fluorescence and confocal microscopes within a research institute or core microscopy facility Features full-colour illustrations and workable practical protocols *Understanding Light Microscopy* is intended for any scientist who wishes to



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understand and use a modern light microscope. It is also ideal as supporting material for a formal taught course, or for individual students to learn the key aspects of light microscopy through their own study.

Experimental Techniques in Materials and Mechanics provides a detailed yet easy-to-follow treatment of various techniques useful for characterizing the structure and mechanical properties of materials. With an emphasis on techniques most commonly used in laboratories, the book enables students to understand practical aspects of the methods and derive the maximum possible information from the experimental results obtained. The text focuses on crystal structure determination, optical and scanning electron microscopy, phase diagrams and heat treatment, and different types of mechanical testing methods. Each chapter follows a similar format: Discusses the importance of each technique Presents the necessary theoretical and background details Clarifies concepts with numerous worked-out examples Provides a detailed description of the experiment to be conducted and how the data could be tabulated and interpreted Includes a large number of illustrations, figures, and micrographs Contains a wealth of exercises and references for further reading Bridging the gap between lecture and lab, this text gives students hands-on experience using mechanical engineering and materials science/engineering techniques for determining the structure and properties of materials. After completing the book, students will be able to confidently perform experiments in the lab and extract valuable data from the experimental results.

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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.

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