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**Steels: Processing, Structure, and Performance** is a comprehensive guide to the broad, dynamic physical metallurgy of steels. The volume is an extensively revised and updated edition of the classic 1990 book **Steels: Heat Treatment and Processing Principles**. Eleven new chapters expand the coverage in the

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previous edition, and other chapters have been reorganized and updated. This volume is an essential reference for anyone who makes, uses, studies, or designs with steel. The interrelationships between chemistry, processing, structure, and performance--the elements of physical metallurgy--are integrated for all the types

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To Steel of steel discussed. The evolution, characterization, and performance of steel microstructures are described, with increased emphasis on deformation and fracture. Heat treatment remains a vital aspect of the manufacture of steel products, and the coverage of thermal processing and its effect on steels is



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Expanded in this edition. Dramatic changes in steel manufacture have occurred in the 15 years since the publication of the 1990 edition. Low-carbon sheet steels have experienced the most dynamic changes: thermal processing of sheet steels on a massive continuous scale has produced new grades with only

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subtle changes in chemistry. Low carbon sheet steels, together with strengthening mechanisms, developments in microalloyed forging steels, steels with bainitic and a variety of ferritic microstructures, quench and tempered steel performance, high-carbon steels for rail and ultra-high strength wire, and the

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To Steel causes of low toughness and embrittlement are all discussed in new chapters. Brief coverage is provided on the history of steel, including the time frame for important developments. A link to steelmaking and solidification is made in the chapter on the effects of primary processing on steel microstructure. The

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Text is meant to be informative, readable, up-to-date, and self contained. Principles, concepts, and understanding of microstructural evolution and performance, within the framework of processing and properties, are illustrated, by plots of data, micrographs and schematic diagrams. A special effort has

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been made to include references to the most pertinent books, reviews, and technical papers on a given subject. About the Author Dr. George Krauss is currently University Emeritus Professor at the Colorado School of Mines and a metallurgical consultant specializing in steel microstructural systems. He served at

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Lehigh University as Assistant Professor, Associate Professor, and Professor of Metallurgy and Materials Science from 1963 to 1975, and in 1975, joined the faculty of the Colorado School of Mines as the AMAX Foundation Professor in Physical Metallurgy. He was the John Henry Moore Professor of Metallurgical

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To Steel Engineering at the time of his retirement from the Colorado School of Mines in 1997. In 1984, Dr. Krauss was a principal in the establishment of the Advanced Steel Processing and Products Research Center, a National Science Foundation Industry-University cooperative research center at the

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Colorado School of Mines, and served as its first Director until 1993. In addition to the three editions of the present volume, he coauthored the book Tool Steels, Fifth Edition, ASM International, 1998, and edited or co-edited conference volumes on tempering of steel, carburizing, zinc-based coatings on steel, and microalloyed



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Forging steels. He has published over 300 papers and lectured widely in technical conferences, universities, corporations and ASM International chapters, including a number of keynote, invited and honorary lectures. He presented the Edward DeMille Campbell Memorial Lecture of ASM International in 2000 and the Howe

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Memorial Lecture of the Iron and Steel Society in 2003. Dr. Krauss has served as the President of the International Federation of Heat Treatment and Surface Engineering (IFHTSE), 1989-91, and as President of ASM International, 1996-97. He is Fellow of ASM International, TMS, and IFHTSE. He has been awarded the

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Adolf Martens Medal of the German Society for Heat Treatment and Materials, the Charles S. Barrett Silver Medal of the Rocky Mountain Chapter of ASM, the George Brown Gold Medal of 3.

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Heat treatment of metallic alloys constitutes an important step within the production process. The heat treatment process itself is considered as a cycle of heating the workpieces to a predetermined temperature, keeping them at this temperature for the time period required, and cooling them to room temperature in

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To steel an appropriate way. The process of heating and keeping workpieces at the required temperature is now adays weil mastered and mostly automatized. The process of cooling or quenching which determines actually the resulting properties, is handicapped with many physical and technical uncertainties. Good

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Results can already be obtained predominantly by using empirically based practice. But increased demands on the properties of the products as well as demands on safety and environment conditions of the quenching media require efforts to investigate the details of the quenching process and to transfer the

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Results of the research to practical application. Advances in the knowledge about quenching processes have been achieved by modern applied thermodynamics especially by the heat and mass transfer researches; further the application of computer technology was helpful to new approaches in quenching

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Processes. Special emphases has been given to: - The theory of heat transfer and heat exchange intensification during quenching - Wetting kinematics - Residual stresses after quenching - Determination of the quenching intensity - Prediction of microstructural transformation and hardness distribution after quenching, the



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latter with some limitations.

Computers in Materials Technology presents the computer applications in materials technology. It discusses the materials selection in computer data banks of metals and polymers. This book is divided into six sections that address the

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To Steel alloy and composite materials design. This book deals first with the computerized control of alloy steel making and heat treatment; computer-based models for quenching; calculation of carbon and nitrogen profile in carburizing and carbonitriding; digital image analysis in quantitative metallography; and derivation

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To Steel of stereological relationships by computer synthesis of microstructure. Other sections consider the computer-operated methods of calculating phase equilibria and the computer aided modelling of volume fraction determination. These topics are followed by discussions of computer-controlled system for constant amplitude

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fatigue testing and the calculation of the transformation behavior of steel. The final chapter looks into the necessity of computer computation in the fiber composites application. The book can provide useful information to engineers, scientists, students, and researchers.

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