



## Steels: Processing, Structure, and Performance (Hardback)

By George Krauss

ASM International, United States, 2006. Hardback. Book Condition: New. 323 x 196 mm. Language: English . Brand New Book. 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 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 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 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 subtle...



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