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Introduction to Stainless Steels STAINLESS STEELS are iron-base alloys that contain a minimum of about 12% Cr, the amount needed to prevent the formation of rust in unpolluted atmospheres (hence the designa-tion stainless). Few stainless steels contain more than 30% Cr or less than 50% iron. They achieve their stainless characteristics through

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Abstract Specialty steels encompass a broad range of ferrous alloys noted for their special processing characteristics (powder metallurgy alloys), corrosion resistance (stainless steels), wear resistance and toughness (tool steels), high strength (maraging steels), or magnetic properties (electrical steels).

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Materials covered include carbon, alloy and stainless steels; alloy cast irons; high-alloy cast steels; superalloys; titanium and titanium alloys; refractory metals and alloys; nickel-chromium and nickel-thoria alloys; structural intermetallics; structural ceramics, cermets, and cemented carbides; and carbon-composites.

The rate of growth of stainless steel has outpaced that of other metals and alloys, and by 2010 may surpass aluminum as the second most widely used metal after carbon steel. The 2007 world production of stainless steel was approximately 30,000,000 tons and has nearly doubled in the last ten years. This growth is occurring at the same time that the production of stainless steel continues to become more consolidated. One result of this is a more widespread need to understand stainless steel with fewer resources to provide that information. The concurrent technical evolution in stainless steel and increasing volatility of raw material prices has made it more important for the engineers and designers who use stainless steel to make sound technical judgments about which stainless steels to use and how to use them.

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.

Following a general introduction, which reviews steelmaking practices as well as the classification, general properties, and applications of steel, this volume contains four major sections that describe processing characteristics, service characteristics, corrosion behavior, and material requirement

Designed as a basic and introductory reference, this book not only addresses stainless steels in the light of their resistance to corrosion for which they are more commonly recognised, but also explains the wide range of other useful properties attributable to the various and specific categories of these alloys. This book is a concise, easy-to-read introduction to one of the most widely used industrial materials. Each chapter explains an important concept related to the selection, application, processing and use of stainless steels. This book is indexed and includes appendices: (1) Identification of Stainless Steels in Service (2) Toxicity of Stainless Steel (3) Table of Equivalent Designations (this is not intended to be complete, but includes the more commonly used stainless steels and the most widely used designation systems). First published in 1965 and updated in 1986, this third edition is a completely new text.

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.

This one-stop reference is a tremendous value and time saver for engineers, designers and researchers. Emerging technologies, including aluminum metal-matrix composites, are combined with all the essential aluminum information from the ASM Handbook series (with updated statistical information).

This ASM Handbook is the most comprehensive collection of engineering information on this important structural material published in the last sixty years. Prepared with the cooperation of the International Magnesium Association, it presents the current industrial practices and provides information and data about the properties and performance of magnesium alloys. Materials science and engineering are covered, including processing, properties, and commercial uses.

