



Steel Metallurgy

S. K. Mandal

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Properties, Specifications and Applications:

Covering the subject of steel metallurgy from its applications point of view, this book discusses the applied metallurgical knowledge required for easy-learning about steels, their properties, specifications, heat treatment and applications. :

The book is conceptually divided into four parts:

The first part introduces the basic metallurgical facts about steel and its characteristics, covers the most important aspects of steel metallurgy, its applications, and fundamental features of steelmaking and rolling processes, and highlights the different types of properties of steel and the need for testing and evaluation:

Discussing the classifications, specifications and properties of steels in a more quantitative manner (based on popular standards and standard-based data), the second part focuses on different steel grades and their merits and properties for selection and applications

The third part focuses on heat treatment and welding of steels, various heat treatment methods and their purposes, and basic aspects of welding and welding precautions in steels

Dwelling on the application of steels, the fourth part discusses the totality of steel applications from the point of view of reliability and component integrity, the importance of cost and quality optimization in applications, and the criticality of design and manufacturing quality for prevention of failures

Steel Metallurgy has been designed to provide all necessary information and practice-based knowledge about steel characteristics, steel properties, steel grades, and steel applications for selecting, processing and using steels with right understanding and for the right purposes.

Highlights of the book:

Provides deep theoretical and practice-based knowledge about steels, their properties, specifications, heat treatment and applications

Includes large number of examples, illustrations and case studies

Includes elaborate Index of contents for cross-referencing, a Bibliography for further reading and reference, and Glossary of Important Metallurgical Terms

Simplified and highly illustrated narration ideal for metallurgical students, metallurgists and non-metallurgical engineers

The book is intended for both students and practitioners. The book will help students of metallurgy and other engineering disciplines to understand the applied and functional-basics of steels relating to their properties, specifications and applications. Engineers and technical personnel in industries dealing with steel processing and its uses will benefit from the hard look the book takes for the precise selection of steel for the right

purposes by providing workable knowledge on steel metallurgy and steel specifications.

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Information is provisions for folks to get better life, information today can get by anyone on everywhere. The information can be a understanding or any news even a concern. What people must be consider when those information which is in the former life are hard to be find than now's taking seriously which one is suitable to believe or which one the resource are convinced. If you obtain the unstable resource then you obtain it as your main information it will have huge disadvantage for you. All of those possibilities will not happen throughout you if you take Steel Metallurgy as your daily resource information.

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