

# PHYSICAL METALLURGY OF STEEL

## — BASIC PRINCIPLES

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### INTRODUCTION

Steel is primarily an alloy of carbon in iron although most commercial grades contain other alloying elements as well. It is well known that if pure iron is slowly cooled from its liquid state to room temperature it undergoes isothermal transformations at  $1534^{\circ}\text{C}$  from liquid to  $\delta$  phase, and, at  $1390^{\circ}\text{C}$  from  $\delta$  to  $\gamma$  phase, and at  $910^{\circ}\text{C}$  from  $\gamma$  to  $\alpha$  phase (Fig. 1). These phases have different crystal structures;  $\delta$  and  $\alpha$  phases are BCC whereas  $\gamma$  is FCC. Addition of carbon to iron significantly alters the above transformation characteristics. While in liquid state iron can dissolve considerable amount of carbon, its solubility in solid state is significantly less. This is determined by the spacing of iron atoms in the crystal lattice. FCC structure although more closely packed has larger interstitial spacing than BCC lattice and therefore can accommodate relatively larger amount of carbon. For example maximum solubility of carbon in  $\alpha$  or  $\delta$  (also called ferrite) is 0.08 whereas that in  $\gamma$  (also called austenite) it is 2.06. Carbon in excess of this limit is usually present in steel as a carbide called cementite which is a stable non equilibrium compound represented as  $\text{Fe}_3\text{C}$ . Thus steel at a given temperature and pressure may therefore contain more than one phases. Equilibrium diagram provides a graphic representation of the distribution of various phases as function temperature and overall composition. If properly interpreted this also provides compositions of respective phases and their relative amount. Fig. 2 represents such a diagram for Fe- $\text{Fe}_3\text{C}$  system. This contains three horizontal lines representing three invariant transformations viz.

# Physical Metallurgy Of Steel Basic Principles

**VM Jensen**



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*Physical Metallurgy* Gregory N. Haidemenopoulos, 2018-02-07 Physical metallurgy is one of the main fields of metallurgical science dealing with the development of the microstructure of metals in order to achieve desirable properties required in technological applications Physical Metallurgy Principles and Design focuses on the processing structure properties triangle as it applies to metals and alloys It introduces the fundamental principles of physical metallurgy and the design methodologies for alloys and processing The first part of the book discusses the structure and change of structure through phase transformations The latter part of the books deals with plastic deformation strengthening mechanisms and mechanical properties as they relate to structure The book also includes a chapter on physical metallurgy of steels and concludes by discussing the computational tools involving computational thermodynamics and kinetics to perform alloy and process design

**Basic Metallurgy** Clyde B. Jenni, 1969 PHYSICAL METALLURGY: PRINCIPLES AND PRACTICE, THIRD EDITION RAGHAVAN, V., 2015-11-10 This well established book now in its Third Edition presents the principles and applications of engineering metals and alloys in a highly readable form This new edition retains all the basic topics covered in earlier editions such as phase diagrams phase transformations heat treatment of steels and nonferrous alloys shape memory alloys solidification fatigue fracture and corrosion as well as applications of engineering alloys A new chapter on Nanomaterials has been added Chapter 8 The field of nano materials is interdisciplinary in nature covering many disciplines including physical metallurgy Intended as a text for undergraduate courses in Metallurgical and Materials Engineering the book is also suitable for students preparing for associate membership examination of the Indian Institute of Metals AMIIM and other professional examinations like AMIE

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Principles of heat treatment of steels Romesh C. Sharma, 2003 Heat Treatment Of Steels As An Art To Improve Their Service Performance Has Been Practised Ever Since It Started To Be Used As Tools And Weapons However The Scientific Basis Of Heat Treatment Of Steels Became More Apparent Only In The First Half Of This Century And Still Some Gaps Remain In Its Complete Understanding Earlier Books On Heat Treatment Of Steels Mainly Emphasised The Art And The Empirically Arrived

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Pan,2008-12-22 An Emerging Tool for Pioneering Engineers Co published by the International Federation of Heat Treatment and Surface Engineering Thermal processing is a highly precise science that does not easily lend itself to improvements through modeling as the computations required to attain an accurate prediction of the microstructure and properties of work pieces is sophisticated beyond the capacity of human calculation Over the years any developments in thermal processes relied largely on empiricism and traditional practice but advancements in computer technology are beginning to change this Enhances the quest for process optimization Comprehensive and authoritative the Handbook of Thermal Process Modeling of Steels provides practicing engineers with the first complete resource that meets the needs of both those new to modeling and those hoping to profit from advances in the field Written by those with practical experience it demonstrates what is involved in predicting material response under industrial rather than laboratory conditions and consequently gives heightened insight into the physical origins of various aspects of materials behavior Encourages both the understanding and the use of real time process control Before the advent of sophisticated computers the errors inherent in computational predictions made modeling an ineffective gamble rather than a cost saving tool Today modeling shows great promise in both materials performance improvements and process cost reduction The basic mathematical models for thermal processing simulation gradually introduced to date have yielded enormous advantages for some engineering applications however much research needs to e accomplished as existing models remain highly simplified by comparison with real commercial thermal processes Yet this is quickly changing Ultimately those engineers who can move this tool of improvement out of the lab and onto the factory floor will discover vast opportunities to gain a competitive edge

**The Canadian Mining and Metallurgical Bulletin** ,1928      *Learning Directory* ,1970

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