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Excerpt from How to Make Converter Steel Castings It will be the author's object, in this and succeeding chapters, to give a general idea of the science and art of making steel castings in a foundry equipped with the Tropenas system of steel-making. It is a mistake to think that the company operating a small converter plant can successfully compete in all lines of the casting business. There are, undoubtedly, branches where it cannot compete with the open-hearth and the malleable iron foundry. There are few things so light that they cannot be cast from the excessively hot steel made in the small converter, but for these tiny pieces, gray iron, malleable iron or brass are generally strong enough. On the other hand, for the very large pieces, say over 8 tons in weight, the open-hearth is probably cheaper, in America at any rate, though in England a plant operating five converters is successful in competition with the open-hearth and produces over 600 tons per month of miscellaneous castings of all analyses, and varying from less than a pound up to 10 tons. The field of the small converter is ideally in the small and medium castings, and those calling for a specially high-grade material. It is an undisputed fact, that a well-handled converter of the Tropenas type produces a superior quality of steel, sounder, closer-grained and stronger than can be otherwise obtained. In automobile work, motor boats for gears, valves and levers, turbine work, gas engines and general machine work, converter castings are particularly desirable. The realization of what can be done in the way of making light and intricate castings has led to the elaboration of engine and machine details in a remarkable way. A designer has no longer to take into consideration the possibility of not being able to get the castings he requires in steel. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections

present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Metallurgy and Technology of Steel Castings is a comprehensive textbook for students and professional engineers in the field of foundry engineering and materials science. The topics covered in this book explain the association between the quality of liquid metal and the properties of the finished cast. Readers will learn about the thermodynamic conditions for addition and recovery of chemical elements (such as Cr, Ni and Mo) in steel, degasifying processes, the influence of alloying additives for manufacturing steel castings that operate in extreme temperatures, anti-corrosive steels and basic cast conditions for making the castings (pouring and heat treatment systems).

Metallurgy and Technology of Steel Castings gives readers essential information about steel and steel cast manufacturing processes and equips them with the knowledge to overcome the challenges faced in the foundry environment. Directional Solidification of Steel Castings summarizes the results of a large number of investigations, mostly scientific in character, on the directional solidification of steel castings. The influence of design on the technical possibilities of producing casting in the foundry is examined. Diagrams, simple basic rules, and formulae are provided, along with many practical examples. This book is comprised of 16 chapters and begins with an introduction to the technical and psychological aspects of steel casting before turning to a discussion of the influence of shape and dimensions on the time it takes for castings to solidify. The thermal gradient, feeder heads, and cavities in steel castings are then considered. In particular, the effect of the thermal gradient on solidification and feeding range are examined. Methods for increasing the thermal gradient in the casting are described, including the use of mold heating

pads, breaker cores or Washburn cores; external cooling (iron chills); cooling fins; internal chills; and exothermic pads. Cavities in steel castings which are commonly mistaken for true shrinkage cavities are also analyzed. This monograph is particularly suitable for foundry managers, foremen, technicians, casting designers, and students. Complete Casting Handbook is the result of a long-awaited update, consolidation and expansion of expert John Campbell's market-leading casting books into one essential resource for metallurgists and foundry professionals who design, specify or manufacture metal castings. The first single-volume guide to cover modern principles and processes in such breadth and depth whilst retaining a clear, practical focus, it includes: A logical, two-part structure, breaking the contents down into casting metallurgy and casting manufacture Established, must-have information, such as Campbell's '10 Rules' for successful casting manufacture New chapters on filling system design, melting, molding, and controlled solidification techniques, plus extended coverage of a new approach to casting metallurgy Providing in-depth casting knowledge and process know-how, from the noteworthy career of an industry-leading authority, Complete Casting Handbook delivers the expert advice needed to help you make successful and profitable castings. Long-awaited update, consolidation and expansion of expert John Campbell's market-leading casting books into one essential handbook Separated into two parts, casting metallurgy and casting manufacture, with extended coverage of casting alloys and new chapters on filling system design, melting, moulding and controlled solidification techniques to compliment the renowned Campbell '10 Rules' Delivers the expert advice that engineers need to make successful and profitable casting decisions The Foseco Ferrous Foundryman's Handbook is a practical reference book for all those concerned with making castings in any of the commonly used alloys, by any of the usual moulding methods. International SI units are used throughout, but in almost all cases

conversions to the more familiar Metric and Imperial units are given. Wherever possible, Casting Alloy Specifications include equivalent specifications for several countries as well as international specifications. Individual chapters cover the casting of light alloys, copper-based alloys, all types of cast-iron and steel. For each group of alloys, specifications and typical applications are described, together with details of melting practice, metal treatment and casting practice. Sand moulding materials, including green sand and chemically bonded sands are also included.

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