



IRON AND STEEL CASTINGS ENGINEERING GUIDE

BY JAGAN NATH

This engineering guide, an accompanying guide to *Aluminum Castings Engineering Guide* (ASM International, 2018), is a practical compilation of several decades of experience, illustrating the judicious application of principles and proven practical engineering guidelines.

This book explains the interactions of product design (for function and manufacturability), materials engineering (for the best choice of alloy and microstructure), and process engineering practices (to achieve the properties and integrity of a component at the most comprehensive cost). Product design engineers, process engineers, quality personnel buyers, and students specializing in the iron and steel casting field will benefit from this application-oriented, practical guide that emphasizes the interdependence of the disciplines, with illustrations explaining the application of principles and the rationale of practices.

This book also examines performance driven by microstructure, which is driven by mechanical properties and manufacturability, which is then process driven by quality and competitive costs. The book combines theory as well as practice, making it a handy reference for practicing foundry personnel, and casting designers.

Another notable feature is the vast information on different types of cast irons and steels, making it a unique reference material. It contains vast data on compositions/grades, structures, and properties applications making it a valuable addition to libraries.

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