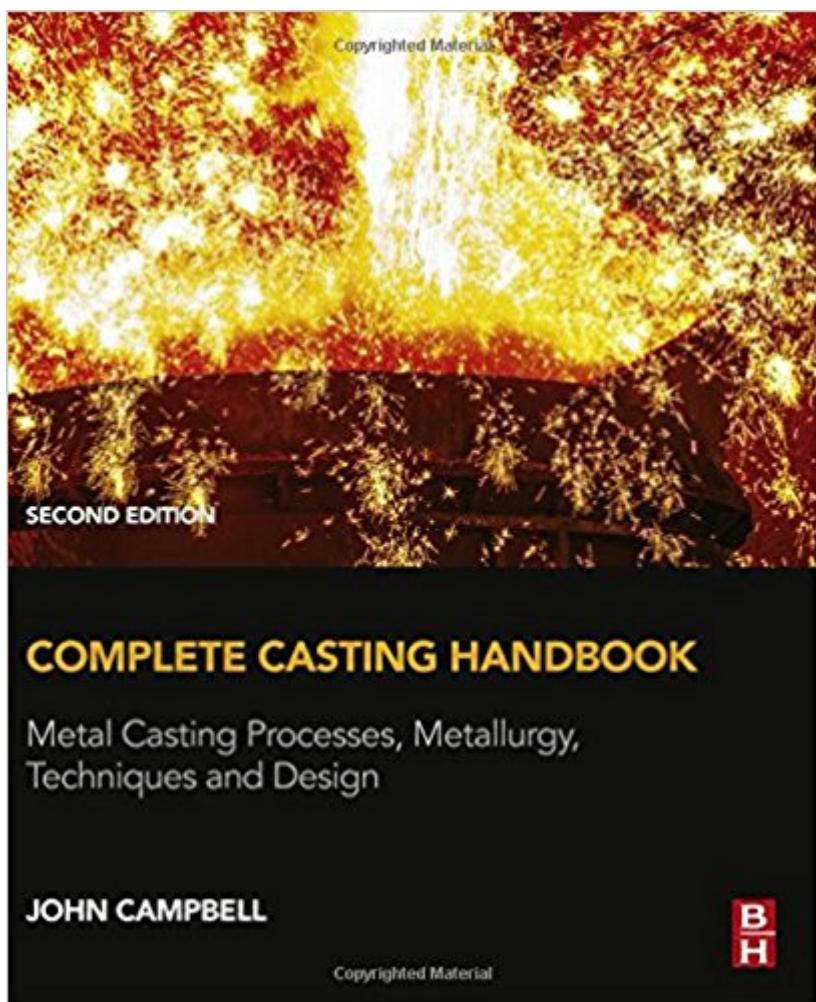


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# Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques And Design



## Synopsis

Campbell's Complete Casting Handbook: Metal Casting Processes, Techniques and Design, Second Edition provides an update to the first single-volume guide to cover modern principles and processes in such breadth and depth, while also retaining a clear, practical focus. The work has a unique viewpoint, interpreting the behavior of castings, and metals as a whole, in terms of their biofilm content, the largely invisible casting defects which control much of the structure and behavior of metals. This new edition includes new findings, many from John Campbell's own research, on crack initiation, contact pouring, vortex gates, and the Cosworth Process. Delivers the expert advice that engineers need to make successful and profitable casting decisions. Ideal reference for those interested in solidification, vortex gates, nucleation, biofilm, remelting, and molding. Follows a logical, two-part structure that covers both casting metallurgy and casting manufacture. Contains established, must-have information, such as Campbell's "10 Rules" for successful casting manufacture. Includes numerous updates and revisions based on recent breakthroughs in the industry.

## Book Information

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## Customer Reviews

"In this, his latest book, Prof Campbell expands and develops many of the topics that he has previously considered and includes the more conventional casting technology subjects in one complete reference guide. Throughout the book, the emphasis is on casting quality, or the

minimisation of defects, and John's passion for his subject shines through. He takes careful note of the basic science, the physics and maths of how liquids flow, cool and solidify, but does not become blind with science. Indeed his many years of practical problem solving with foundries means that he recognises the many constraints faced by the methods engineer. Given that during the casting process there are so many ways in which the metal quality can be compromised, his aim throughout is for foundries to be able to produce castings of consistent quality at lowest cost. Above all he wants to encourage a considered approach to the design of the running system and to the metal supply system. The ideal book for metallurgists and foundry engineers who design, specify or manufacture metal castings and a must have reference guide for every foundry." --Foundry --This text refers to the Paperback edition.

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. --This text refers to the Paperback edition.

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