



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

By John Campbell

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Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design By John Campbell

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

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Editorial Review

Review

"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 '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**

From the Back Cover

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:

1. A logical, two-part structure, breaking the contents down into casting metallurgy and casting manufacture
2. Established, must-have information, such as Campbell's '10 Rules' for successful casting manufacture
3. 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.

About the Author

John Campbell OBE is a leading international figure in the castings industry, with over four decades of experience. He is the originator of the Cosworth Casting Process, the pre-eminent production process for automobile cylinder heads and blocks. He is also co-inventor of both the Baxi Casting Process (now owned by Alcoa) developed in the UK, and the newly emerging Alotech Casting Process in the USA. He is Professor Emeritus of Casting Technology at the University of Birmingham, UK.

Users Review

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Kristen Hancock:

The book Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design can give more knowledge and also the precise product information about everything you want. Exactly why must we leave a good thing like a book Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design? Wide variety you have a different opinion about book. But one aim in which book can give many facts for us. It is absolutely right. Right now, try to closer using your book. Knowledge or info that you take for that, you are able to give for each other; it is possible to share all of these. Book Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design has simple shape but the truth is know: it has great and large function for you. You can seem the enormous world by open up and read a publication. So it is very wonderful.

Judy Sigmund:

Reading a book tends to be new life style in this era globalization. With reading through you can get a lot of information that can give you benefit in your life. Having book everyone in this world can easily share their idea. Guides can also inspire a lot of people. Many author can inspire all their reader with their story or their experience. Not only the story that share in the textbooks. But also they write about the ability about something that you need case in point. How to get the good score toefl, or how to teach children, there are many kinds of book that you can get now. The authors on earth always try to improve their proficiency in writing, they also doing some analysis before they write for their book. One of them is this Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design.

Carmen Vasquez:

A lot of people always spent their particular free time to vacation or even go to the outside with them family members or their friend. Are you aware? Many a lot of people spent they will free time just watching TV, or perhaps playing video games all day long. If you want to try to find a new activity here is look different you can read a new book. It is really fun to suit your needs. If you enjoy the book you read you can spent 24 hours a day to reading a e-book. The book Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design it is extremely good to read. There are a lot of individuals who recommended this book. These were enjoying reading this book. If you did not have enough space bringing this book you can buy the particular e-book. You can m0ore easily to read this book through your smart phone. The price is not to cover but this book possesses high quality.

Gregory Medina:

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