



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:

- 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.

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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Brenda Wright:

Reading can be called brain hangout, why? Because if you find yourself reading a book mainly book entitled Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design your brain will drift away through every dimension, wandering in each aspect that maybe mysterious for but surely will end up your mind friends. Imaging each and every word written in a guide then become one type conclusion and explanation which maybe you never get prior to. The Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design giving you one more experience more than blown away your brain but also giving you useful info for your better life in this era. So now let us present to you the relaxing pattern here is your body and mind will probably be pleased when you are finished reading through it, like winning an activity. Do you want to try this extraordinary investing spare time activity?

Mark Authement:

Reading a book being new life style in this calendar year; every people loves to go through a book. When you study a book you can get a large amount of benefit. When you read guides, you can improve your knowledge, simply because book has a lot of information in it. The information that you will get depend on what sorts of book that you have read. If you want to get information about your research, you can read education books, but if you act like you want to entertain yourself you can read a fiction books, this kind of us novel, comics, in addition to soon. The Complete Casting Handbook, Second Edition: Metal Casting Processes, Metallurgy, Techniques and Design will give you new experience in examining a book.

Duane Vega:

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