



# Castings Practice: The Ten Rules of Castings

By John Campbell

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Each chapter of Professor Campbell's new book Castings Practice will take a look at one of his 10 rules. It is to be expected that the Rules will one day be taken as an outline or blueprint for an international specification on the methods for making reliable castings.

John Campbell has over two decades of experience in the casting industry and is the author of over 40 technical papers and patents. He has become well-known in the foundry industry as the originator of the Cosworth casting process, which is becoming accepted throughout the world as a new production process for the casting of cylinder heads and blocks. He is now Federal Mogul Professor of Casting Technology at the University of Birmingham.

- \* Must-follow rules of castings, from one of the world's leading experts
- \* Companion volume to the renowned book 'Castings'
- \* Accessible and direct, provides essential information for students of metallurgy and foundry professionals alike



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### Editorial Review

#### Review

##### Reviews of Castings Practice:

"Castings Practice is a book that everyone associated with Foundry Technology should possess, but particularly those involved in the actual design and manufacture of castings such as Method Engineers, Production Engineers and Foundry Management.

Our industry is fortunate in having Professor Campbell, an academic trained as a physicist and a physical metallurgist who has also considerable experience of working in operational foundries using a variety of materials and processes. Not only does Campbell bring to his publications the wealth of his own research and foundry experience, but as Professor of Casting Technology at the University of Birmingham he is at the forefront of research and development of cast metals.

Like all Professor Campbell's books, Castings Practice has an intimate, easy style of writing that makes reading it an enjoyable experience and you cannot help being caught up the author's enthusiasm for a Foundry Technology that needs to be scientifically based and conducted in a professional manner." - Tom Sutton, CEng Hon FICME, MIMechE ICME Technical Board

'Throughout, this book is packed with useful information... as a manual to guide the purchasers or specifiers of castings this book has started a trend that is long overdue.' Dr R Fenn FIMMM, Materials World, April 2005

"This new book by John Campbell is a wonderful example of passionate and professional treatises on the problem of how to make a good casting...On many occasions, the author argues with himself in *Castings* (1991) and brilliantly demonstrates the progress of scientific and technical thinking that have occurred within a decade. All in all, *Castings Practice* gives a valuable methodology of designing castings and molds and points out the problems yet to be solved. A wonderful feature of the book is the phenomenological approach chosen by the author for explaining complex phenomena occurring during casting. The book contains amazingly few formulas (not typical for a modern textbook) and yet remains scientifically deep. This text can be strongly recommended for castings engineers, metallurgists, graduate and postgraduate students and for materials scientists (like myself) who are interested in casting processing...the book, without doubt, will serve as a valuable knowledge source for many years to come." - Journal of The Minerals, Metals and Materials Society, D. Eskin, Netherlands Institute for Metals

##### Reviews of Castings:

"Castings is a must reference for all foundry engineers and castings designers."

"Its author has himself made an outstanding contribution to the advance in the science and engineering of metal founding over recent years, and his new look at old problems makes stimulating reading."

"Entertaining and fun to read. How refreshing to find an author writing on science and technology who is prepared to move out of the strait-jacket of conventional style and to be himself with realism, enthusiasm and a dry sense of humour."

"This is a work which the casting industry should welcome with open arms. No foundry, and no foundry technologist, can afford to be without it."

#### 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

#### From reader reviews:

##### **Paulette Stoneman:**

Reading a reserve tends to be new life style within this era globalization. With examining you can get a lot of information that may give you benefit in your life. Together with book everyone in this world can share their idea. Publications can also inspire a lot of people. Many author can inspire their own reader with their story or even their experience. Not only the storyline that share in the textbooks. But also they write about the data about something that you need case in point. How to get the good score toefl, or how to teach your kids, there are many kinds of book that exist now. The authors these days always try to improve their expertise in writing, they also doing some exploration before they write on their book. One of them is this Castings Practice: The Ten Rules of Castings.

##### **Patricia Whitmore:**

The book untitled Castings Practice: The Ten Rules of Castings contain a lot of information on it. The writer explains your ex idea with easy approach. The language is very clear to see all the people, so do definitely not worry, you can easy to read the idea. The book was written by famous author. The author provides you in the new age of literary works. It is easy to read this book because you can read more your smart phone, or program, so you can read the book inside anywhere and anytime. If you want to buy the e-book, you can wide open their official web-site in addition to order it. Have a nice study.

##### **Maureen Guzman:**

This Castings Practice: The Ten Rules of Castings is completely new way for you who has curiosity to look for some information as it relief your hunger of knowledge. Getting deeper you on it getting knowledge more you know otherwise you who still having little bit of digest in reading this Castings Practice: The Ten Rules of Castings can be the light food for yourself because the information inside this particular book is easy to get simply by anyone. These books acquire itself in the form that is certainly reachable by anyone, yeah I mean in the e-book type. People who think that in book form make them feel tired even dizzy this book is the answer. So there isn't any in reading a publication especially this one. You can find what you are looking for. It should be here for you. So , don't miss the idea! Just read this e-book variety for your better life in addition to knowledge.

**Melinda Miller:**

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