



Science and Engineering of Casting Solidification, Second Edition

By Doru Stefanescu

Download now

Read Online ➔

Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu

Stefanescu here attempts to describe solidification theory through the complex mathematical apparatus required for a fundamental treatment of the problem. The mathematics is however restricted to the elements essential to attain a working knowledge in the field. This is in line with the main goal of the book, which is to educate the reader in the fast moving area of computational modeling of solidification of castings. A special effort has been made to introduce the reader to the latest developments in solidification theory including, in this second edition, a new chapter on semi-solid casting.

↓ [Download Science and Engineering of Casting Solidification, ...pdf](#)

📄 [Read Online Science and Engineering of Casting Solidificatio ...pdf](#)

Science and Engineering of Casting Solidification, Second Edition

By Doru Stefanescu

Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu

Stefanescu here attempts to describe solidification theory through the complex mathematical apparatus required for a fundamental treatment of the problem. The mathematics is however restricted to the elements essential to attain a working knowledge in the field. This is in line with the main goal of the book, which is to educate the reader in the fast moving area of computational modeling of solidification of castings. A special effort has been made to introduce the reader to the latest developments in solidification theory including, in this second edition, a new chapter on semi-solid casting.

Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu Bibliography

- Sales Rank: #3525674 in Books
- Published on: 2008-11-06
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .94" w x 6.14" l, 1.55 pounds
- Binding: Hardcover
- 380 pages

 [Download Science and Engineering of Casting Solidification, ...pdf](#)

 [Read Online Science and Engineering of Casting Solidificatio ...pdf](#)

Editorial Review

From the Back Cover

Science and Engineering of Casting Solidification, Second Edition covers the essentials of solidification science of metals and alloys at macro- and micro-length scales at cooling rates specific to commercial castings and rapid solidification processing. The mathematical fundamentals necessary to build a working knowledge in the field, specifically partial differential equations and numerical analysis, are introduced. Each topic begins with the description of the underlying physics, followed by the mathematics required to build analytical and numerical models. Wherever possible, a detailed description of the architecture of the numerical model is provided, followed by examples of models built on the Excel spreadsheet.

Features of this new edition include:

- Expanded sections on peritectic solidification and shrinkage porosity mechanisms and modeling,
- A new chapter addressing rapid solidification and bulk metallic glasses,
- Additional solved problems,
- Revised and simplified derivations of several models.

Science and Engineering of Casting Solidification, Second Edition will prove useful to senior undergraduate and graduate students, as well as to industrial researchers that work in the field of solidification in general and casting modeling in particular. The detailed coverage of casting defects will also make it useful to industrial practitioners of metal casting. Additional course materials are available upon faculty request.

Users Review

From reader reviews:

Willene Choate:

What do you regarding book? It is not important together with you? Or just adding material if you want something to explain what the one you have problem? How about your time? Or are you busy particular person? If you don't have spare time to do others business, it is make one feel bored faster. And you have time? What did you do? Every individual has many questions above. They have to answer that question due to the fact just their can do that will. It said that about guide. Book is familiar in each person. Yes, it is right. Because start from on pre-school until university need this specific Science and Engineering of Casting Solidification, Second Edition to read.

Joshua Bush:

The event that you get from Science and Engineering of Casting Solidification, Second Edition will be the more deep you looking the information that hide within the words the more you get considering reading it. It

doesn't mean that this book is hard to know but Science and Engineering of Casting Solidification, Second Edition giving you buzz feeling of reading. The copy writer conveys their point in particular way that can be understood through anyone who read that because the author of this guide is well-known enough. This particular book also makes your own vocabulary increase well. Therefore it is easy to understand then can go along, both in printed or e-book style are available. We recommend you for having this Science and Engineering of Casting Solidification, Second Edition instantly.

William Reynolds:

Playing with family in the park, coming to see the marine world or hanging out with buddies is thing that usually you will have done when you have spare time, in that case why you don't try point that really opposite from that. 1 activity that make you not experience tired but still relaxing, trilling like on roller coaster you have been ride on and with addition details. Even you love Science and Engineering of Casting Solidification, Second Edition, you are able to enjoy both. It is fine combination right, you still would like to miss it? What kind of hang type is it? Oh can occur its mind hangout people. What? Still don't buy it, oh come on its identified as reading friends.

Frances Stone:

You can get this Science and Engineering of Casting Solidification, Second Edition by go to the bookstore or Mall. Only viewing or reviewing it could possibly to be your solve trouble if you get difficulties for the knowledge. Kinds of this reserve are various. Not only through written or printed but can you enjoy this book by means of e-book. In the modern era such as now, you just looking from your mobile phone and searching what your problem. Right now, choose your ways to get more information about your guide. It is most important to arrange you to ultimately make your knowledge are still change. Let's try to choose right ways for you.

Download and Read Online Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu #EFTJC12UID6

Read Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu for online ebook

Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu books to read online.

Online Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu ebook PDF download

Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu Doc

Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu Mobipocket

Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu EPub

EFTJC12UID6: Science and Engineering of Casting Solidification, Second Edition By Doru Stefanescu