

## Principles Of Metal Casting Richard W Heine Carl R

Dark Sun Women's College Volleyball Recruiting RICH DAD, POOR DAD: WHAT THE RICH TEACH THEIR KIDS ABOUT MONEY -THAT THE POOR AND MIDDLE CLASS DO NOT. Complete Casting Handbook Diary of a U-Boat Commander STEEL MAKING Rift A Century of Innovation Prin Of Foundry Tech 5E Metal Casting: Principles And Practice From Puritanism to Postmodernism Fundamentals of Tooth Preparations for Cast Metal and Porcelain Restorations First-Principles Approaches to Metals, Alloys, and Metallic Compounds Fundamentals of Metal Casting The Science of Getting Rich The Art of Game Design Richard Serra Sculpture CASTING TECHNOLOGY AND CAST ALLOYS Rapidly Quenched Metals The Manchurian Candidate Proceedings of the 2013 International Symposium on Liquid Metal Processing and Casting Welding and Welding Technology Green Nanotechnology Principles of Metal Casting Heat Treatment : Principles and Techniques X-Ray Imaging Figure Sculpture in Wax and Plaster Principles of Metal Casting The Gray Iron Castings Handbook The Melancholy MBA Handbook of Advanced Ceramics Principles of Metal Casting, Third Edition Principles of Electronic Communication Systems Changing World Order UFO Phenomena and Perpetual Motion Machines Cooking for Geeks On the Principles of Political Economy, and Taxation Julia Morgan, Architect Atlas Shrugged Principles of Metal Casting

### Dark Sun

"This book offers a detailed presentation of Richard Serra's entire career, from his early experiments with materials like rubber, neon, and lead to the environmentally scaled steel works of recent years, including three monumental new sculptures created for the exhibition that this book accompanies."--BOOK JACKET.

### Women's College Volleyball Recruiting

## RICH DAD, POOR DAD: WHAT THE RICH TEACH THEIR KIDS ABOUT MONEY -THAT THE POOR AND MIDDLE CLASS DO NOT.

Mankind is constantly facing different challenges in our dynamically changing world. What we pretty much need is cooperation and alliance to overcome the problems we have to face. Our conflicts of interest and ideological opposition have to be put aside. Without a wide-scale social alliance we will not be able to find the answers to the questions that have properly arisen because of our irresponsible behavior. In the Middle Ages natural resources were so abundantly available that mankind's needs were pretty easily met. We had to do nothing else than to cut out of nature everything we happened

to need in a specific moment of time. Mankind snatched the opportunity but did not really chew the cud. They took away what they wanted. Nevertheless, with the onset of the industrial revolution, the rules of the game started to change. The energy output of the machines reached higher and higher levels, but at the same time, the rate of charge they exerted on the environment had also uninterruptedly increased. We opted for an "elegant" solution. We just simply hushed up the problem. For a long time, the protection of the environment had been a disregarded marginal field ignored completely by the political powers. Nevertheless, the environmental catastrophes warned us to take action in a very short while, but the fire extinguishing might have started too late; hence the operation of some of the energy-supplying systems produced an immense economic benefit for several lobby groups. Petrol, natural gas, and other common yet not really efficient sources of energy, which at the same time have had a deleterious influence on the environment, are constantly dwindling away. Fuel prices reach the stars. If we see a temporary price decrease, we take a deep breath. Nonetheless, this is nothing other than the end game. Remarkable changes are to come. If this does not happen or is delayed, a global catastrophe is expected to come. When might this downturn happen? What other sources can replace the petrol? For the moment, no one can answer these questions. Could anyone? According to some thinking the progress of history is not linear but cyclic. Many of the ideas had been born many centuries or even many millenniums ago in the heads of certain persons. Some of them put their ideas even on paper, or others might have built them. Who were they? If someone comes up with an idea that differs pretty much from the ordinary ones of his era, he cannot really be optimistic about a warm welcome. He is looked at as a weirdo at most. In the worst case he is burnt at the stake because of not having accepted the traditions. It is actually not worth going too far. In the past, the ones who were asking too many questions had to face the ecclesiastical or secular powers, whereas today these are replaced by the petroleum lobby. However, the end result is the same, unfortunately: a rented parcel in a quiet graveyard. Documents and experimental utensils are disappearing or are destroyed practically as a routine. Certain academic circles are declaring that "the idea is pure fantasy; this cannot be true because it contradicts the laws of nature!" Of course, they forget to mention what they exactly mean about "laws of nature" since "nature" or "universe" are boundless notions the full comprehension and mapping of which is impossible. Making use of our rules and laws we manage to get access to those parts about which we confidently state that we have managed to understand. Can we, however, talk about real comprehension? All our rules are based on semblances and simplifications. We want to humanize something that is totally independent of us. We overestimate our role. We abuse nature instead of serving it. Some recognized this problem in Hungary and abroad as well.

## **Complete Casting Handbook**

Here, for the first time, in a brilliant, panoramic portrait by the Pulitzer Prize-winning author of *The Making of the Atomic Bomb*, is the definitive, often shocking story of the politics and the science behind the development of the hydrogen bomb and the birth of the Cold War. Based on secret files in the United States and the former Soviet Union, this monumental work

of history discloses how and why the United States decided to create the bomb that would dominate world politics for more than forty years.

## **Diary of a U-Boat Commander**

From the international bestselling author of Principles and legendary investor Ray Dalio, who has spent half a century studying global markets, The Changing World Order examines history's most turbulent economic and political periods to reveal why the times ahead will likely be radically different from those we've experienced in our lifetimes. A few years ago, renowned investor Ray Dalio began noticing a confluence of political and economic conditions he hadn't encountered before in his fifty-year career. They included large debts and zero or near-zero interest rates in the world's three major reserve currencies; significant wealth, political and values divisions within countries; and emerging conflict between a rising world power (China) and the existing one (US). Seeking to explain the cause-effect relationships behind these conditions, he began a study of analogous historical times and discovered that such combinations of conditions were characteristic of periods of transition, such as the years between 1930 and 1945, in which wealth and power shifted in ways that reshaped the world order. Looking back across five hundred years of history and nine major empires - including the Dutch, the British and the American - The Changing World Order puts into perspective the cycles and forces that have driven the successes and failures of all the world's major countries throughout history. Dalio reveals the timeless and universal dynamics that were behind these shifts, while also offering practical principles for policymakers, business leaders, investors and others operating in this environment.

## **STEEL MAKING**

### **Rift**

While books on the medical applications of x-ray imaging exist, there is not one currently available that focuses on industrial applications. Full of color images that show clear spectrometry and rich with applications, X-Ray Imaging fills the need for a comprehensive work on modern industrial x-ray imaging. It reviews the fundamental science of x-ray imaging and addresses equipment and system configuration. Useful to a broad range of radiation imaging practitioners, the book looks at the rapid development and deployment of digital x-ray imaging system.

## **A Century of Innovation**

This book, Green Nanotechnology - Overview and Further Prospects, is intended to provide an overview and practical examples of the use of nanomaterials in the new scientific challenges of the green nanotechnology world. We aimed to compile information from a diversity of sources into a single volume to give some real examples, extending the concept that green nanotechnology is far from being a scientific conundrum, and instead a real answer to some of the actual problems the whole planet is dealing with.

## **Prin Of Foundry Tech 5E**

### **Metal Casting: Principles And Practice**

Rapidly Quenched Metals, Volume I covers the proceedings of the Fifth International Conference on Rapidly Quenched Metals, held in Wurzburg, Germany on September 3-7, 1984. The book focuses on amorphous and crystalline metals formed by rapid quenching from the melt. The selection first covers the scope and trends of developments in rapid solidification technology, rapid solidification, and undercooling of liquid metals by rapid quenching. Discussions focus on experimental method, powders, strip, particulate production, consolidation, and alloys and alloy systems. The text then examines the solidification of undercooled liquid alloys entrapped in solid; crystallization kinetics in undercooled droplets; and grain refinement in bulk undercooled alloys. The manuscript tackles the undercooling of niobium-germanium alloys in a 100 meter drop tube; influence of process parameters on the cooling rate of the meltspinning process; and the mechanism of ribbon formation in melt-spun copper and copper-zirconium. The formation and structure of thick sections of rapidly-solidified material by incremental deposition and production of ultrafine dispersions of rare earth oxides in Ti alloys using rapid solidification are also mentioned. The selection is a valuable reference for physicists, chemists, physical metallurgists, and engineers.

### **From Puritanism to Postmodernism**

Everyone wants to be rich, but do you know that there is a SCIENCE OF GETTING RICH. This book explains in simple steps how you can first ready yourself to earn more, without hassles or worries. From the simplest question of who all can actually get rich, to the small steps taken - like developing a will power, showing gratitude, getting into the right business - have been explained in detail, in everyday terms. Read on, and find out the secret behind changing your life and the way your earn.

### **Fundamentals of Tooth Preparations for Cast Metal and Porcelain Restorations**

Devoted exclusively to proper tooth preparation techniques, including design, philosophy, and clinical application. Actual preparation of teeth is given in minute detail.

## **First-Principles Approaches to Metals, Alloys, and Metallic Compounds**

### **Fundamentals of Metal Casting**

(This book is a printed edition of the Special Issue "First-Principles Approaches to Metals, Alloys, and Metallic Compounds" that was published in Metals)

### **The Science of Getting Rich**

### **The Art of Game Design**

Captain Karl von Schenk of the Kaiser's Navy is a stereotypical German nobleman - supremely self-confident, touchy about the divisions of class and any infringement on his place. He thinks he is handsome, has a suitably manly physique, an excellent singing voice, and a facility with writing. His wartime service related in his diary is a series of triumphs over harrowing circumstances, bringing his boat back in spite of the best efforts of the Royal Navy to stop him. His one vulnerability is a young lady he meets on leave in Bruges, Belgium. Although she is the trophy girlfriend of a German colonel who could cause him much harm if he were to find out, von Schenk pursues his Zoe with Teutonic straightforwardness. And both he and the reader are entirely blind-sided by the unexpected thunderclap that puts an end to the sweet affair. Stephen King-Hall, a Royal Navy officer during the war and writing as "Etienne", penned this book as if he had simply discovered it on a surrendered submarine. In fact, some editions of the book list the author as "anonymous." King-Hall's knowledge of naval affairs lend authority to this yarn of men that go to the sea in ships that sink on purpose.

### **Richard Serra Sculpture**

Anyone can master the fundamentals of game design - no technological expertise is necessary. The Art of Game Design: A Book of Lenses shows that the same basic principles of psychology that work for board games, card games and athletic games also are the keys to making top-quality videogames. Good game design happens when you view your game from

many different perspectives, or lenses. While touring through the unusual territory that is game design, this book gives the reader one hundred of these lenses - one hundred sets of insightful questions to ask yourself that will help make your game better. These lenses are gathered from fields as diverse as psychology, architecture, music, visual design, film, software engineering, theme park design, mathematics, writing, puzzle design, and anthropology. Anyone who reads this book will be inspired to become a better game designer - and will understand how to do it.

## **CASTING TECHNOLOGY AND CAST ALLOYS**

A compilation of 3M voices, memories, facts and experiences from the company's first 100 years.

### **Rapidly Quenched Metals**

### **The Manchurian Candidate**

## **Proceedings of the 2013 International Symposium on Liquid Metal Processing and Casting**

A two-volume reference set for all ceramicists, both in research and working in industry The only definitive reference covering the entire field of advanced ceramics from fundamental science and processing to application Contributions from over 50 leading researchers from around the world This new Handbook will be an essential resource for ceramicists. It includes contributions from leading researchers around the world, and includes sections on: Basic Science of Advanced Ceramic, Functional Ceramics (electro-ceramics and optoelectro-ceramics) and engineering ceramics. Contributions from over 50 leading researchers from around the world

### **Welding and Welding Technology**

In an age where reality and science fiction are colliding, Richard Cox's extraordinary debut thriller takes its place as an all-too-believable novel of white-knuckle adventure. For when an ordinary man makes one great leap for mankind, he triggers a chain of events that endangers his life, fractures his certainty, and plunges everyone he knows into a place where nothing is what it seems. Cameron Fisher is bored. With his wife, Misty. With his job as an accountant at NeuroStor, the high-tech microchip firm. With everything about his life—until he is offered five million dollars to test a secret new technology that uses a wrinkle in quantum physics to transmit matter from one place to another. His employer's high-stakes brainchild is

ready for its first human test. And Cameron Fisher is all too happy to oblige. One moment Cameron is sitting naked in a seven-by-seven-foot metal room in Houston; the next second he is in a laboratory in Phoenix—trembling now not with fear but joy. Within hours, Cameron will be free to go home. But first there is a celebratory drink—and a strange and scintillating meeting with a spectacularly beautiful woman. Then he's being followed by men with guns . . . and suddenly Cameron is running, stumbling, falling into a world that looks like his own, but in which he has become a ragged stranger, accused of murder and pursued by people who want him dead. It appears that NeuroStor's invention has changed Cameron. Next, it will change the entire world. With its stunning twists, sensual adventure, and raw, psychological suspense, *Rift* takes readers on a thrill-a-second ride to one last amazing choice for Cameron Fisher. A gripping and utterly satisfying work of storytelling magic, *Rift* asks the ultimate question: What if you had to die to find out what it really means to be alive?

## **Green Nanotechnology**

Presents recipes ranging in difficulty with the science and technology-minded cook in mind, providing the science behind cooking, the physiology of taste, and the techniques of molecular gastronomy.

## **Principles of Metal Casting**

The first edition of this book was written as a textbook for college-level courses in metal casting for metallurgical and mechanical-engineering students. Since that time, there have been many advances in the engineering sciences. Major recognition of engineering curricula in colleges has completely altered the sequences of presentation of engineering subjects and courses.

## **Heat Treatment : Principles and Techniques**

## **X-Ray Imaging**

Widely acknowledged as a contemporary classic that has introduced thousands of readers to American literature, *From Puritanism to Postmodernism: A History of American Literature* brilliantly charts the fascinating story of American literature from the Puritan legacy to the advent of postmodernism. From realism and romanticism to modernism and postmodernism it examines and reflects on the work of a rich panoply of writers, including Poe, Melville, Fitzgerald, Pound, Wallace Stevens, Gwendolyn Brooks and Thomas Pynchon. Characterised throughout by a vibrant and engaging style it is a superb introduction to American literature, placing it thoughtfully in its rich social, ideological and historical context. A tour de force

of both literary and historical writing, this Routledge Classics edition includes a new preface by co-author Richard Ruland, a new foreword by Linda Wagner-Martin and a fascinating interview with Richard Ruland, in which he reflects on the nature of American fiction and his collaboration with Malcolm Bradbury. It is published here for the first time.

## **Figure Sculpture in Wax and Plaster**

Parents who know how to be "sports agents" for their children give you the inside scoop on the DIY approach to attracting college volleyball recruiters. Sports recruiting agencies do a great job but can be expensive. A recruiting agency can charge \$3,000 or more and many families do not have this extra income. *Women's College Volleyball Recruiting: A How-to Guide for Parents* by Rich Lancellot and Kim Wheeler is an easy-to-use guide that Wheeler's and Lancellot's daughters used to earn a combined \$190,000 in academic and athletic scholarships. Based on their experiences, they coach you on how to attract the attention of prospective coaches and decide which college is the best fit for your child. Their recruiting guide gives you tips on how student athletes can promote themselves, what camera equipment is needed to obtain quality videos to send to prospective coaches, and more. There are also dos and don'ts, such as watching what your children post on social media and what they can and cannot say at a tournament, and easy to use checklists and other forms to aid parents and players in the recruiting process. Volleyball parents and coaches will both benefit from *Women's College Volleyball Recruiting*. It's your guide to getting your children noticed.

## **Principles of Metal Casting**

Brick Road Poetry Press is committed to publishing work that appeals to a wide range of tastes. If you enjoy writing that is fast-paced, accessible, and sharply-drawn, *The Melancholy MBA* will not disappoint. The book is filled with scenes and stories from America's offices and boardrooms, those "glass-enclosed jungles" that shape our lives and culture.

## **The Gray Iron Castings Handbook**

The classic thriller about a hostile foreign power infiltrating American politics: "Brilliant . . . wild and exhilarating." —*The New Yorker* A war hero and the recipient of the Congressional Medal of Honor, Sgt. Raymond Shaw is keeping a deadly secret—even from himself. During his time as a prisoner of war in North Korea, he was brainwashed by his Communist captors and transformed into a deadly weapon—a sleeper assassin, programmed to kill without question or mercy at his captors' signal. Now he's been returned to the United States with a covert mission: to kill a candidate running for US president . . . This "shocking, tense" and sharply satirical novel has become a modern classic, and was the basis for two film adaptations (*San Francisco Chronicle*). "Crammed with suspense." —*Chicago Tribune* "Condon is wickedly skillful." —*Time*

## **The Melancholy MBA**

## **Handbook of Advanced Ceramics**

## **Principles of Metal Casting, Third Edition**

## **Principles of Electronic Communication Systems**

This text emphasizes the underlying metallurgical principles of casting technology so that the students can develop a sound set of analytic skills, helpful in the development of improved casting processes and products. The pictorial and diagrammatic support provided throughout reinforces the clarity of the text for a thorough understanding of the metal casting concepts and technologies. Besides comprehensive coverage of the casting processes and elaborate discussion of properties of cast irons, cast steels, and cast nonferrous alloys, the text also familiarizes the students with the most recent developments in binder systems, casting practices, solidification processing, metal filtration, metallurgy of cast alloys, alloy design, and energy and environment management. The book is primarily designed for degree and diploma students pursuing courses in metallurgical, mechanical, and production engineering disciplines as well as for candidates studying for Associate Membership Examinations (AMIIM, AMIE, Grad. IIF). It would also benefit M.Tech./M.E. students specializing in foundry technology and allied disciplines.

## **Changing World Order**

In This Book, The Topics/Syllabus Adequately Cover Metal Casting Subject In The Courses Of Mechanical, Production And Metallurgy Branches For B.E., B.Tech. As Well As Production And Industrial Metallurgy For M.Tech. With His Direct Experience In Metal Casting Industry And Teaching Academics The Author Attempts To Bridge The Gap Existing Between Essential Theory In Books And Vital Practical Applications In Industry. It Contains All The Molding Processes Normally Used With Details Of Ingredient Testing, Different Stages Of Casting Production Essential Theory Of Gating And Riser, As Well As Finishing, Inspection And Quality Control. Over 80 Line Sketches Facilitate Easy Understanding. Information Given Through Over 20 Tables Help Easy Comprehension, Comparison And Remembrance. Exhaustive Examples Of Specific Components Normally Made By Casting Process Help To Build Confidence When Entering Industry. Over 200 Technical Books And Research Papers Up To May 1996 Are Referred. Examples Of Working Computer Programs Given, Form The Basis For Modern

Practice-Oriented Projects In Final Year. For Practising Engineers, Managers And Entrepreneurs, This Book Provides Useful Theory And Practical Aspects On Foundry Management. Exhaustive Treatment Of Critical Gating & Riser With Many Industry Examples, Practical Solutions To Melting Problems, Casting Defects Analysis Through Cause-Effect Diagrams Will Be Very Useful. Essential Information. On Energy Conservation And Environmental Pollution Control Is Also Given In The Last Chapter.

## **UFO Phenomena and Perpetual Motion Machines**

Steel Making is designed to give students a strong grounding in the theory and state-of-the-art practice of production of steels. The book is primarily focused to meet the needs of undergraduate metallurgical students and candidates for associate membership examinations of professional bodies (AMIIM, AMIE). Besides, for all engineering professionals working in steel plants who need to understand the basic principles of steel making, the text provides a sound introduction to the subject. Beginning with a brief introduction to the historical perspective and current status of steel making together with the reasons for obsolescence of Bessemer converter and open hearth processes, the book moves on to :

- elaborate the physicochemical principles involved in steel making
- explain the operational principles and practices of the modern processes of primary steel making (LD converter, Q-BOP process, and electric furnace process)
- provide a summary of the developments in secondary refining of steels
- discuss principles and practices of ingot casting and continuous casting of steels
- emphasize an increasing need to protect our environment and utilize waste energy
- explain transport processes, simulation, and modelling relevant to the developments in steel technology.

The book provides considerable information in an easily assimilable form and makes an ideal introduction to the complex subject of steel technology.

## **Cooking for Geeks**

"Principles of Electronic Communication Systems" is an introductory course in communication electronics for students with a background in basic electronics. The program provides students with the current, state-of-the-art electronics techniques used in all modern forms of electronic communications, including radio, television, telephones, facsimiles, cell phones, satellites, LAN systems, digital transmission, and microwave communications. The text is readable with easy-to-understand line drawings and color photographs. The up-to-date content includes a new chapter on wireless communications systems. Various aspects of troubleshooting are discussed throughout.

## **On the Principles of Political Economy, and Taxation**

In this splendidly detailed, generously illustrated text, the well-known American sculptor Richard McDermott Miller

introduces the art of modeling the human figure in two media known for their liveliness and spontaneity. Recognizing the needs of the beginner as well as the interests of the professional artist, the book masterfully puts you quickly in possession of the basic procedures you'll need to get started, provides specific details on materials and tools, and launches you into actual projects specifically designed to teach you sculptural skills. The book first analyzes the human figure and describes the way the sculptor translates the figure into the modeled form: finding a personal style; working from photographs or memory; working from life; and capturing gesture, proportion and anatomy. Mr. Miller then describes, step by step, how to work with wax, how to sketch a small figure in wax, how to model the figure on a wax armature, and the process of hollow wax modeling. He follows the same procedure as he introduces working with plaster, from mixing it to modeling a hollow torso. Many other important topics, from mold-making techniques to working with models to finding out where and how to buy materials and tools, are presented. Throughout, Mr. Miller emphasizes the practice, rather than the theory of sculpture, emphasizing that, apart from the artist's need for personal expression, sculpture is a physical task involving the manipulation of materials. His concentration on the sculptor's working problems makes this an unusually useful and valuable guide to sculpting the human figure. Dover (1987) unabridged, slightly updated republication of the edition originally published by Watson-Guption Publications, New York, 1971.

## **Julia Morgan, Architect**

The definitive metal casting resource--fully updated Written by prominent industry experts, Principles of Metal Casting, Third Edition, addresses the latest advances in the field such as melting, casting processes, sand systems, alloy development, heat treatment, and processing technologies. New chapters cover solidification modeling, casting defects, and zinc and zinc alloys. Detailed photographs, illustrations, tables, and equations are included throughout. Ideal for students and researchers in metallurgy and foundry science as well as foundry industry professionals, this authoritative guide provides all of the information needed to produce premium-quality castings. Comprehensive coverage includes: Patterns Casting processes Solidification of metals and alloys Gating and risering of castings Casting process simulation Aluminum and aluminum alloys Copper and copper alloys Magnesium and magnesium alloys Zinc and zinc alloys Cast irons Steel castings Cleaning and inspection Casting defects

## **Atlas Shrugged**

William Randolph Hearst's dazzling "castle" at San Simeon, California, is famous world round, yet only the aficionado can name Julia Morgan as the architect who built it. For more than thirty years she worked with Hearst in a rare collaboration, creating not only his art-filled hilltop palace but also a fairy-tale Bavarian "village" known as Wynton and many other commercial and domestic structures. Yet the Hearst commissions, notable as they are, are not Morgan's only claim to fame.

One of the first women to graduate in civil engineering from the University of California, Berkeley, Morgan was the first woman ever to earn a certificate in architecture from the prestigious Ecole des Beaux-Arts in Paris. Returning to her native San Francisco in 1902, she was well placed to profit from the surge of building that followed the great earthquake just four years later. A member of an informal "old-girls" network that linked the leaders of the increasingly active women's organizations, Morgan received commissions for schools, clubs, and conference centers, including major YWCA buildings from Salt Lake City to Honolulu. Churches, hospitals, sanitariums, sororities, and shopping centers - she designed them all, in a long career notable for a total of more than 700 structures designed and built. Her light-filled houses were carefully crafted in styles ranging from Arts and Crafts to Mediterranean and sizes ranging from modest cottage to elegant mansion. Her swimming pools were voluptuous, climaxing in the two peacock-hued beauties at San Simeon. Given the sweep of Morgan's accomplishments, it is astonishing that this is the first substantial book ever devoted to her career. Painstakingly researched for more than a decade by Sara Holmes Boutelle, founder of the Julia Morgan Association, this handsome volume lovingly documents Morgan's life and work. Letters, snapshots, working sketches, and blueprints bring the process of architecture to life, while striking photographs commissioned especially for the book record the results of Morgan's multifaceted creativity, from the china she designed for the Berkeley Women's City Club to the tiled towers and gilded ceilings at San Simeon.

## **Principles of Metal Casting**

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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