



Casting: An Analytical Approach (Engineering Materials and Processes)

Alexandre Reikher, Michael Barkhudarov

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The die cast industry has long used trial and error as a development method, resulting in growth of the use of CFD (computational fluid dynamics) software. This book will discuss the governing laws of the fluid dynamics that have an effect on die cast die and die cast process design. MATLAB® and Visual Basic® code are listed in for every stage of product, die and die cast process design. Readers will learn about: the advantages and limitations of the die cast process; the implications product design has on the quality of the die cast part; how die cast die and process design can affect the physical properties of the casting; the calculations die cast die and process designers have to do; choosing the die cast machine size and the proper gate size; and how to properly design gas ventilation systems, identify an ideal fill time, and calculate fast and slow shot velocity. This book will interest product designers that design die cast parts and die cast die and process engineers and designers.

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