

Shape Casting



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This book provides an international update on the research and development that has taken place in the design and production of high quality castings. It includes comprehensive coverage of high quality castings, gating system design, process modeling, mechanical behavior and structure-process-property relationships. In addition, it explores in-depth the latest casting innovations in quality, reliability and process design. Topics covered include: Design of Filling and Feeding Systems Modeling of Casting Processes Liquid Metal Processing New and Innovative Casting Processes Structure-Process-Property Relationships Residual Stresses in Castings (both experiment and modeling) Solidification and Microstructure of Cast Alloys Case Studies (illustrating process design and/or quality improvement for high quality castings) A collection of papers from the TMS 2009 Annual Meeting & Exhibition held in San Francisco, California, February 15-19, 2009.

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