Injection Molding Handbook

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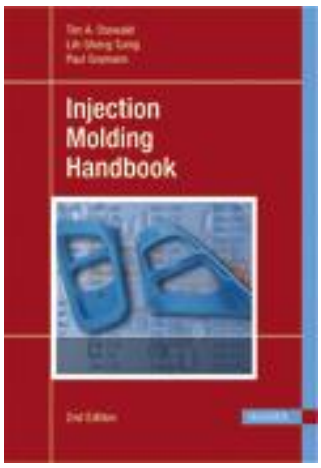

內容簡介

此本書籍以深入淺出的方式，以化學、物理、材料學 和程式工程等理論基礎，完整說明射出成型程序與技術。同時，針對相關影響射出成型的因素，如材料、過程控制、模擬、設計等，提出問題解決策略。相關參與撰寫本書的人員包括射出成型專家，同時也有產業界的實作人員以及學界的研究人士，因此本書雖以射出成型之理論作爲基礎，但輔以實際說明，並不會僅流於理論而缺乏實務。本書第一章到第三章說明基礎理論背景，包含基礎的製程原則說明以及材料介紹；第四章到第六章介紹射出成型機械；第七章說明材料控制；第八章則介紹與射出成型相關之過程控制；第九章針對特殊射出成型製程提出深入的說明；第十章和第十一章則介紹塑件設計和射出成型模擬技術。關於射出成型技術，本書可說是業者不可獲缺的必備工具書。

The Injection Molding Handbook is primarily written for engineers, processors researchers, and other professionals with various levels of technical background. It not only serves as introductory reading for those becoming acquainted with injection molding, but also as an indispensable reference for experienced practitioners. The handbook presents a thorough, up-to-date view of injection molding processing equipment and techniques, with fundamental information on the chemistry, physics, material science, and process engineering. It also covers topics that directly affect the injection molding process, such as injection molding materials, process control, simulation, design, and troubleshooting. The handbook presents a well-rounded overview of the underlying theory and physics that control the various injection molding processes, without losing the practical flavor that governs the manuscript between its covers. The carefully chosen contributing authors include experts in the field, as well as practitioners and researchers in both industry and academia.

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