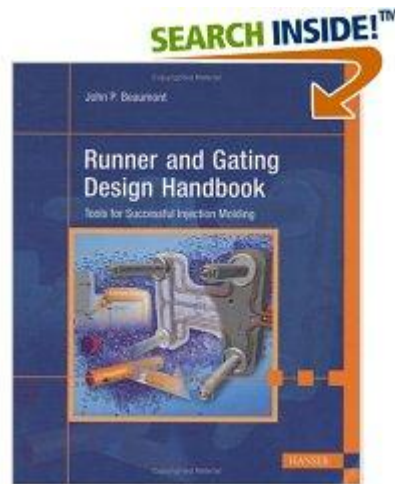


Runner and Gating Design Handbook: Tools for Successful Injection Molding

作者：John P. Beaumont
出版社：Hanser Gardner
出版日期：2004 年
語言：英文
ISBN 13: 9781569903476
ISBN 10: 1-56990-347-6
裝訂：精裝
定價：台幣 4,500 元 美金 130 元



內容簡介

流道與澆口設計往往扮演塑膠射出成型成敗的關鍵角色，它提供射出成型模具從射出機的噴嘴處到模具的模穴之間塑料流動的控制。隨著產品生命週期的縮短，塑膠製造業者往往需加快生產速度以提昇自己的競爭力，造成流道與澆口系統因時間成本投入不足而發生設計不良的情形，影響產品品質。如今產品的品質與穩定性逐漸受到消費者重視，因此該考量品質還是成本，往往讓業者左右為難。

除了科盛科技專業團隊可協助您解決所有問題外，本專業書籍是另一個絕佳的輔助工具。此全方位塑膠產業工具書，除了完整介紹流道與澆口設計的先進技術，更進一步提出多項有效的問題解決方案，為射出成型業者不可或缺之工具書。

For the first time, both the art and science of designing runners and gates are presented in a concise format that highlights all critical issues. This book will help determine the optimum design, when to use what type of runner systems, and how to isolate molding problems generated from the gate and runner vs. other molding issues. Full color 3-D graphics, illustrations and photographs as well as charts, checklists, and troubleshooting guides complete this handbook.



Contents

1 Overview of Runners, Gates, and Gate Positioning	1
2 Rheology of Plastics.	5
3 Filling and Packing Effects on Material and Molded Part	15
4 Gate Positioning and Molding Strategies	37
5 The Melt Delivery System	63
6 Filling and Melt Imbalances Developed in Multi-Cavity Molds	85
7 Managing Shear-Induced Melt Variations for Successful Molding . . .	111
8 Cold RunnerMolds.	127
9 Hot Runner Molds	151
10 Hot Runner Flow Channel Design	163
11 Hot Runner Drops, Nozzles and Gates	173
12 Thermal Issues of Hot Runner Systems	185
13 The Mechanics and Operation of Hot Runners	195
14 Process of Designing and Selecting a Runner System (Gate and Runner).	207
15 Troubleshooting	217