

Plastic Injection Molding

...manufacturing
process
fundamentals

By Douglas M. Bryce

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Injection Molding* series

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Preface

This book (and accompanying volumes to follow) represents over three decades of my involvement in the plastics industry, most of which was spent in injection molding of thermoplastic materials. Through those years, it became apparent to me that most of the people in this industry had learned what they know by *doing*. Their skills were honed by making mistakes, learning from those mistakes, and plunging forward to discover other areas in which the learning process had to be repeated. While this method of attaining knowledge did work, I felt it would be better if novices to the industry could be made aware of the *basics* before being exposed to the trials and tribulations that accompany typical seat-of-the-pants accumulation of knowledge.

Before deciding to write a book on the subject, I researched the available literature and found it to be written, for the most part, for those already in the industry who had a working knowledge of the day-to-day routines involved with injection molding. So, I decided to write a source of basic, fundamental information on injection molding for those who are interested in getting a sound initial grasp of the subject and who also wish to have a reference tool of charts, diagrams, and data that can be used for years to come. I believe this goal is accomplished in the publication of this series.

I have structured the text as a guide to lead the reader through the entire injection molding process from its historic inception to the current state of the art. At the close of each chapter are questions pertinent to the material of that chapter. Answers to the questions appear at the end of the book.

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I am especially grateful to *my wife, my family, and my God* for the encouragement and support they delivered during the time it took me to write the book, and for putting up with my seemingly unlimited requests and tremendous mood swings during that period.

Please accept this book as it is intended, and I welcome you to the world of plastics. Here's hoping your involvement in the injection-molding industry will be as rewarding as mine has been.

Douglas M. Bryce
Georgetown, Texas 1996

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