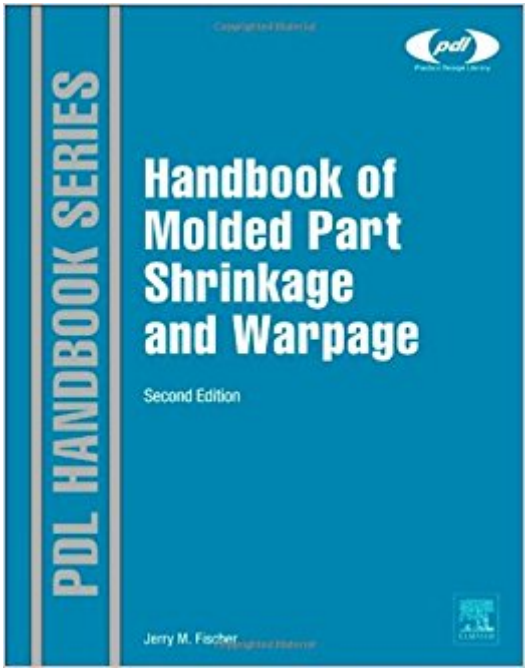
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Handbook Of Molded Part Shrinkage And Warpage, Second Edition (Plastics Design Library)



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Synopsis

How easy life would be if only moldings were the same size and shape as the mold. But they never are, as molders, toolmakers, designers and end users know only too well. Shrinkage means that the size is always different; warpage often changes the shape too. The effects are worse for some plastics than others. Why is that? What can you do about it? The Handbook of Molded Part Shrinkage and Warpage is the first and only book to deal specifically with this fundamental problem. Jerry FischerÃ¢â ¬â„¢s Handbook explains in plain terms why moldings shrink and warp, shows how additives and reinforcements change the picture, sets out the effect of molding process conditions, and explains why you never can have a single Ã¢â ¬ËœcorrectÃ¢â ¬â„¢ shrinkage value. It goes on to demonstrate how to alleviate the problem through careful design of the molded part and the mold, and by proper material selection. It also examines computer-aided methods of forecasting shrinkage and warpage. And most important of all, the Handbook gives you the data you need to work with. . Authoritative and rooted in extensive industrial experience, the expert guidance contained in this handbook offers practical understanding to novices, and new insights to readers already skilled in the art of injection molding and mold making.Contains the answers to common problems and detailed advice on how to control mold and post-mold shrinkage and warpage.Case Studies illustrate and enrich the text; Data tables provide the empirical data that is essential for success, but hard to come by.

Book Information

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Customer Reviews

"This is a great book."--INJECTION MOLDING

Excellent!

The author covers systematically the subject of shrinkage and warpage of plastic parts made by injection molding. First he defines both and lists factors causing them. In the next part of the book, he deals with controlling mold and post-mold shrinkage and warpage in a great detail, including troubleshooting. Another important topic covered is the computer-aided analysis (CAA). The author discusses the capabilities and limitations of CAA and its applications as a tool for predicting what will happen in the mold and to the molding. A considerable attention is given to case studies using ample illustrations and thorough analysis. One full chapter contains data, such as tables, charts and figures for different polymers unfilled and filled, effects of various process parameters, pressure volume temperature (PVT) curves for several major plastics, general shrinkage characteristics and comparative mold shrinkage values for a great number of plastic materials. There are two appendices, one containing conversion factors and equivalents, the other listing abbreviations, acronyms and material names. Glossary, references and bibliography are also included. The book will be a valuable addition to the library of those, who design parts, molds and processes as well as of those who run the production.

In japan, there are not books about warpage for injection molding.So this book is very valuable for me.This book uses simple expression,But contents is comprehensive about warpage.I enjoyed to read chapter 10 Case Studiesthat is often occurred at my workplace.I thought that even if countries are different,the trouble and unexpected accident are the same.But this is written by English, so I check 4 stars.

Handbook of Molded Part Shrinkage and Warpage (Plastics Design Library)Although lower level operators can gain much from this book it is a definitive work with invaluable information for those skilled in the art of injection molding and mold making. I found the answers to many problems that have plagued me over the years. An exciting and rewarding book at any price.Barry Crawford.

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