



# Specialized Injection Molding Techniques

*Hans-Peter Heim*

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## Specialized Injection Molding Techniques Hans-Peter Heim

Special Injection Molding Techniques covers several techniques used to create multicomponent products, hollow areas, and hard-soft combinations that cannot be produced with standard injection molding processes. It also includes information on the processing techniques of special materials, including foaming agents, bio-based materials, and thermosets.

The book describes the most industrially relevant special injection molding techniques, with a detailed focus on understanding the basics of each technique and its main mechanisms, i.e., temperature, mold filling, bonding, residual stresses, and material behavior, also providing an explanation of process routes and their variants, and discussions of the most influencing process parameters.

As special molding technologies have the potential to transform plastics processing to a highly-efficient, integrated type of manufacturing, this book provides a timely survey of these technologies, putting them into context, accentuating new opportunities, and giving relevant information on processing.

- Provides information about the basics needed for understanding several special injection molding techniques, including flow phenomena, bonding mechanisms, and thermal behavior
- Covers the basics of each technique and its main mechanisms, i.e., temperature, mold filling, bonding, residual stresses, and material behavior
- Discusses the most relevant processing parameters for each injection molding technique
- Presents a variety of techniques, including gas and water assisted injection molding, multi component injection molding, hybrid injection molding, injection molding of bio-based materials, and techniques for thermoset

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