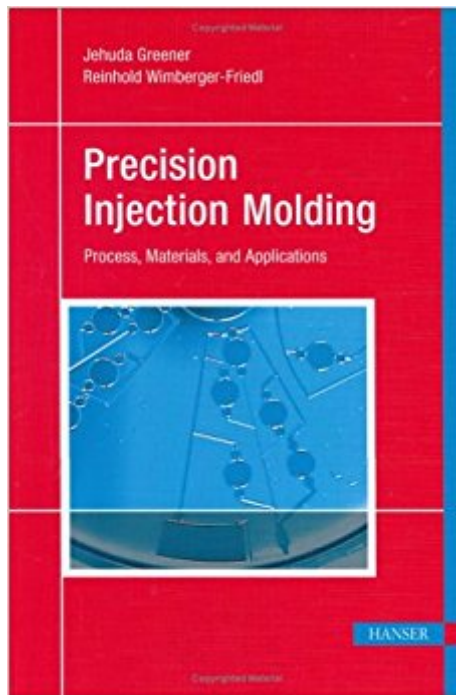




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Precision Injection Molding: Process, Materials, And Applications



Synopsis

One key aspect of the production of high precision components is the need to meet extremely tight dimensional tolerances, often in the submicron range, and maintain these tolerances over the practical lifetimes of the molded articles. This book examines precision injection molding from different perspectives, covering materials, process, mold and machine aspects of the technology, with special emphasis on factors affecting the dimensional integrity and stability of the molded components. Special topics covered in this volume include: mechanisms of dimensional instability of molded plastics, models for prediction of warpage and shrinkage, crystallization phenomena in injection molding, process control, optical disc molding, micro-molding and microstructure replication for microfluidics.

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In-depth knowledge on the practice of injection molding for Micro Fluidics. Lots of information on theory and practice in the development of proper tool surface preparation.

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