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The origins of this book not only include the Moldflow Design Principles, but also include Warpage Design Principles published by Moldflow, and C-Mold Design Guide. Collectively, these documents are based on years of experience in the research, theory and practice of injection molding.

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Since 1995, Mr. Shoemaker has been an Assistant Adjunct Professor at Western Michigan University in the Department of Industrial and Manufacturing Engineering. In this role, he assists with a plastic tooling design class and with funded research in the area of injection mold tooling and processing.

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Designing in sand casting is a critical activity for manufacturing. Further, activities like cavity design, cavity layout and design of gating system are essential in design. Design of gating system in sand casting is dependent upon a various parameters. Gating system design requires lot of manual input and a number of iterations to finalize the design. This requires a good knowledge of casting process, making this activity completely dependent on the user. In present day industry, lot of CAD/CAM tools are applied for design, development and manufacturing. However, need of sand casting expert throughout design and manufacturing makes it a quite lengthy process. Gating system design being one of the major activities also takes much time. Therefore, it would be quite beneficial to develop a system for automated generation of gating system. Proposed system takes CAD file of the die casting part as input and uses sand casting process, machine and alloy knowledge to determine different parameters for the gating system. Designs of the components of the gating system like runner, gate and overflow have been attempted. A feature library has been proposed as a part of this work which together with parametric design of the gating system generates CAD model of the components of the gating system. The system would go a long way in bridging the gap between designing and manufacturing of die-casting.

Plastics in Medical Devices for Cardiovascular Applications enables designers of new cardiovascular medical devices to make decisions about the kind of plastics that can go into the manufacture of their device by explaining the property requirements of various applications in this area, including artificial valves, lead insulation, balloons, vascular grafts, and more. Enables designers to improve device performance and remain compliant with regulations by selecting the best material for each application Presents a range of applications, including artificial valves, stents, and vascular grafts Explains which materials can be used for each application, and why each is appropriate, thus assisting in the design of better tools and processes

Biopolymers and Biodegradable Plastics are a hot issue across the Plastics industry, and for many of the industry sectors that use plastic, from packaging to medical devices and from the construction indusry to the automotive sector. This book brings together a number of key biopolymer and biodegradable plastics topics in one place for a broad audience of engineers and scientists, especially those designing with biopolymers and biodegradable plastics, or evaluating the options for switching from traditional plastics to biopolymers. Topics covered include preparation, fabrication, applications and recycling (including biodegradability and compostability). Applications in key areas such as films, coatings controlled release and tissue engineering are discussed. Dr Ebnesajjad provides readers with an in-depth reference for the plastics industry – material suppliers and processors, bio-polymer producers, bio-polymer processors and fabricators – and for industry sectors utilizing biopolymers – automotive, packaging, construction, wind turbine manufacturers, film manufacturers, adhesive and coating industries, medical device manufacturers, biomedical engineers, and the recycling industry. Essential information and practical guidance for engineers and scientists working with bioplastics, or evaluating a migration to bioplastics. Includes key published material on biopolymers, updated specifically for this Handbook, and new material including coverage of PLA and Tissue Engineering Scaffolds. Coverage of materials and applications together in one handbook enables engineers and scientists to make informed design decisions.

The purpose of aligning short fibers in a fiber-reinforced material is to improve the mechanical properties of the resulting composite. Aligning the fibers, generally in a preferred direction, allows them to contribute as much as possible to reinforcing the material. The first edition of this book detailed, in a single volume, the science, processing, applications, characterization and properties of composite materials reinforced with short fibers that have been orientated in a preferred direction by flows arising during processing. The technology of fiber-reinforced composites is continually evolving and this new edition provides timely and much needed information about this important class of engineering materials. Each of the original chapters have been brought fully up-to-date and new developments such as: the advent of nano-composites and the issues relating to their alignment; the wider use of long-fiber composites and the appearance of models able to capture their orientation during flow; the wider use of flows in micro-channels in the context of composites fabrication; and the increase in computing power, which has made relevant simulations (especially coupling flow kinematics to fiber content and orientation) much easier to perform are all covered in detail. The book will be an essential up-to-date reference resource for materials scientists, students, and engineers who are working in the relevant areas of particulate composites, short fiber-reinforced composites or nanocomposites. Presents recent progress on flow-induced alignment, modelling and design of fiber and particulate filled polymer composites Discusses important advances such as alignment of CNTs in polymer nanocomposites and molecular alignment of polymers induced by the injection molding process in the presence of fillers such as short fibers Presents fiber interaction/diffusion modelling and also the fiber flexure/breakage models

This e-book is a compilation of papers presented at the Mechanical Engineering Research Day 2016 (MERD'16) - Melaka, Malaysia on 31 March 2016.

Annotation Injection moulding is one of the most commonly used processing technologies for plastics materials. Proper machine set up, part and mould design, and material selection can lead to high quality production. This review outlines common factors to check when preparing to injection mould components, so that costly mistakes can be avoided. This review examines the different types of surface defects that can be identified in plastics parts and looks at ways of solving these problems. Useful flow charts to illustrate possible ways forward are included. Case studies and a large b257 of figures make this a very useful report.

Wood-polymer composites (WPC) are materials in which wood is impregnated with monomers that are then polymerised in the wood to tailor the material for special applications. The resulting properties of these materials, from lightness and enhanced mechanical properties to greater sustainability, has meant a growing number of applications in such areas as building, construction and automotive engineering. This important book reviews the manufacture of wood-polymer composites, how their properties can be assessed and improved and their range of uses. After an introductory chapter, the book reviews key aspects of manufacture, including raw materials, manufacturing technologies and interactions between wood and synthetic polymers. Building on this foundation, the following group of chapters discusses mechanical and other properties such as durability, creep behaviour and processing performance. The book concludes by looking at orientated wood-polymer composites, wood-polymer composite foams, at ways of assessing performance and at the range of current and future applications. With its distinguished editors and international team of contributors, Wood-polymer composites is a valuable reference for all those using and studying these important materials. Provides a comprehensive survey of major new developments in wood-polymer composites Reviews the key aspects of manufacture, including raw materials and manufacturing technologies Discusses properties such as durability, creep behaviour and processing performance

This book covers a wide range of applications and uses of simulation and modeling techniques in polymer injection molding, filling a noticeable gap in the literature of design, manufacturing, and the use of plastics injection molding. The authors help readers solve problems in the advanced control, simulation, monitoring, and optimization of injection molding processes. The book provides a tool for researchers and engineers to calculate the mold filling, optimization of processing control, and quality estimation before prototype molding.