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Annual Index/abstracts of SAE Technical Papers | Journal of Design and Manufacturing
Engineering Design Handbook
Innovations in Infrastructure
Gas Assisted Moulding
Delaware Composites Design
Encyclopedia
Injection Molds for Beginners
Developments in Plastics Technology —3
Injection Mold Design Engineering
Moulding
Proceedings of the 10th International Conference on
Metrology and Properties of Engineering Surfaces
A Guide to Injection Moulding
Technique
FUNDAMENTALS OF MODERN MANUFACTURING
Proceedings
Ceramic Injection Molding
Fundamentals of Tool Design, Sixth Edition
Computer-Aided Injection Mold Design and Manufacture
Arburg Practical Guide to Injection Moulding
Knowledge Intensive Design Technology
Handbook of Metal Injection Molding
Design with Reinforced Plastics
Intelligent Optimization of Mold Design and Process Parameters in Injection Molding
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Official Gazette of the United States Patent and Trademark Office
Injection Molding Handbook
Advances in Data Science and Management
Comprehensive Materials Finishing
Microcellular Injection Molding
The Complete Technology Book on Plastic Extrusion, Moulding And Mould Designs
Plastic Injection Molding: Mold Design and Construction Fundamentals
Rotational Moulding

Annual Index/abstracts of SAE Technical Papers Volume is indexed by Thomson Reuters CPCI-S (WoS). This collection comprises 130 selected peer-reviewed papers which address a number of scientific issues underlying the increased global attention paid to mechanical product performance and reliability. Contributions were received from researchers in 8 different countries. The collection aims to report the latest experimental findings and to promote further theoretical research into mechanical product development and reliability.

Journal of Design and Manufacturing
This book presents the outcomes of the International Conference on Intelligent Manufacturing and Automation (ICIMA 2018) organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering, Mumbai, and the Indian Society of Manufacturing Engineers. It includes original research and the latest advances in the field, focusing on automation, mechatronics and robotics; CAD/CAM/CAE/CIM/FMS in manufacturing; product design and development; DFM/DFA/FMEA; MEMS and Nanotechnology; rapid prototyping; computational techniques; industrial engineering; manufacturing process management; modelling and optimization techniques; CRM, MRP and ERP; green, lean, agile and sustainable manufacturing; logistics and supply chain management; quality assurance and environment protection; advanced material processing and characterization; and composite and smart materials.

Engineering Design Handbook
This applications-oriented book describes the construction of an injection mould from the ground up. Included are explanations of the individual types of tools, components, and technical terms; design procedures; techniques, tips, and tricks in the construction of an injection mould; and pros and cons of various solutions. Based on a plastic part (“bowl with lid”) specially developed for this book, easily understandable text and many illustrative pictures and drawings provide the necessary knowledge for practical implementation. Step by step, the plastic part is modified and enhanced. The technologies and designs that are additionally needed for an injection mould are described by engineering drawings. Maintenance and repair, and essential manufacturing techniques are also discussed. Now if full color, this second edition builds on the success of the first, with updates and small corrections throughout, as well as an new expanded section covering the process chain.

Innovations in Infrastructure
Knowledge Intensive Design Technology is a collection of papers presented at the Fifth Workshop on Knowledge Intensive CAD, which was sponsored by the International Federation for Information Processing (IFIP) Working Group 5.2 and hosted by the Department of Manufacturing Engineering at the University of Malta in July 2002. The book chapters progressively take the reader through the following sequential sections: - Part One - KIC Development Approaches, - Part Two - Knowledge Systematization, - Part Three - Prototype KIC Systems. Knowledge Intensive Design Technology makes essential reading for practicing engineers/scientists involved in R&D as well as for relevant Masters and Ph.D. students. The book is also pertinent to those in industry concerned with capturing and structuring company-specific knowledge for proactive reuse to increase product development efficiency, and also to those involved in the development of CAD systems.
Gas Assisted Moulding

Because of the sheer size of the plastics industry, the title Developments in Plastics Technology now covers an incredibly wide range of subjects or topics. No single volume can survey the whole field in any depth and so what follows is therefore a series of chapters on selected topics. The topics were selected by us, the editors, because of their immediate relevance to the plastics industry. When one considers the materials produced and used by the modern plastics industry, there is a tendency to think of the commodity thermoplastics (such as poly(vinyl chloride) or polyethylene); the thermosetting materials are largely ignored. Because of this attitude we are very pleased to include in this volume a chapter which deals with the processing of a thermosetting material, i.e. the pultrusion of glass reinforced polyester. The extrusion of plastics is, of course, a very important subject but an aspect which is often overlooked is the need to remove volatile matter during processing: for this reason we have included a chapter on devolatilisation. Current industrial practice is towards materials modification and this attitude is reflected in the chapters on the transformation of ethylene vinyl acetate polymers and the use of wollastonite in two important thermoplastics. When assessing the performance of materials, there is a tendency to concentrate on short-term mechanical tests and ignore such topics as fatigue and longer-term testing. We are therefore very pleased to include a chapter on this subject.

Delaware Composites Design Encyclopedia

Examining processes that affect more than 70 percent of consumer products ranging from computers to medical devices and automobiles, this reference presents the latest research in automated plastic injection and die casting mold design and manufacture. It analyzes many industrial examples and methodologies while focusing on the algorithms, implementation procedures, and system architectures that will lead to a fully automated or semi-automated computer-aided injection mold design system (CADIMDS). This invaluable guide in this challenging area of precision engineering summarizes key findings and innovations from the authors' many years of research on intelligent mold design technologies.

Injection Molds for Beginners

For over 40 years, students, designers, and manufacturing practitioners have used the Fundamentals of Tool Design to gain an in-depth understanding of all the factors that impact tool success. Fully illustrated, readers will find practical design examples, cost analysis calculations, process data, operating parameters, and tips and techniques—all of the concrete knowledge needed to spark innovation and resolve complex tooling challenges.

Developments in Plastics Technology –3

First published in 1990. CRC Press is an imprint of Taylor & Francis.

Injection Mold Design Engineering Annotation

This proceedings of the July 2002 conference presents new developments in modeling tools for rendering abstract concepts. The 116 papers are arranged into sessions, such as collaborative information visualization environments, animation, curves, the semantic web, and applications in geography and medicine. Topics include a visual query language for large spatial databases, cooperative robot teleoperation through virtual reality interfaces, visualizing temporal features in large-scale microarray time series data, and using bibliographic maps to analyze term distribution in scientific papers. The CD-ROM is an electronic version of the book. No subject index. Annotation copyrighted by Book News, Inc., Portland, OR.

Injection Moulding

Many variations of injection moulding have been developed and one of the rapidly expanding fields is multi-material injection moulding. This review looks at the many techniques being used, from the terminology to case studies. The three primary types of multi-material injection moulding examined are multi-component, multi-shot and over-moulding. The basic types of multi-material injection moulding, the issues surrounding combining different types of polymers and examples of practical uses of this technology are described.

Proceedings of the 10th International Conference on Metrology and Properties of Engineering Surfaces

3D printing is rapidly emerging as a key manufacturing technique that is capable of serving a wide spectrum of applications, ranging from engineering to biomedical sectors. Its ability to form both simple and intricate shapes through computer-controlled graphics enables it to create a niche in the manufacturing sector. Key challenges remain, and a great deal of research is required to develop 3D printing technology for all classes of materials including polymers, metals, ceramics, and composites. In view of the growing importance of 3D manufacturing worldwide, this Special Issue aims to seek original articles to further assist in the development of this promising technology from both scientific and technological perspectives. Targeted reviews, including mini-reviews, are also welcome, as they play a crucial role in educating students and young researchers.
A Guide to Injection Moulding Technique

FUNDAMENTALS OF MODERN MANUFACTURING This third edition has been written to thoroughly update the coverage of injection molding in the World of Plastics. There have been changes, including extensive additions, to over 50% of the content of the second edition. Many examples are provided of processing different plastics and relating the results to critical factors, which range from product design to meeting performance requirements to reducing costs to zero-defect targets. Changes have not been made that concern what is basic to injection molding. However, more basic information has been added concerning present and future developments, resulting in the book being more useful for a long time to come. Detailed explanations and interpretation of individual subjects (more than 1500) are provided, using a total of 914 figures and 209 tables. Throughout the book there is extensive information on problems and solutions as well as extensive cross referencing on its many different subjects. This book represents the ENCYCLOPEDIA on IM, as is evident from its extensive and detailed text that follows from its lengthy Table of CONTENTS and INDEX with over 5200 entries. The worldwide industry encompasses many hundreds of useful plastic-related computer programs. This book lists these programs (ranging from operational training to product design to molding to marketing) and explains them briefly, but no program or series of programs can provide the details obtained and the extent of information contained in this single sourcebook.

Proceedings This review examines the current state of the art in GAM technology and applications. It outlines the fundamental principles and discusses the benefits and limitations of the process. It describes the choice of equipment, including aspects such as nitrogen gas preparation and the position and timing of gas injection. The report also provides design guidelines for thin and thick section mouldings and the c258 and location of gas channels. External gas moulding is also briefly described. An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database provides useful references for further reading.

Ceramic Injection Molding This report explains the fundamentals of rotational moulding, with particular reference to advances in the key areas of materials, machinery, moulds and process control. He considers relationships between processing conditions and product properties, and looks briefly at the future of the process, and the likely advances still to be made. An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database provides useful references for further reading.

Fundamentals of Tool Design, Sixth Edition Eliminate the guesswork from critical mold aspects such as gate location, shape and size. And discover how to establish proper venting so you can prepare ideal mold venting - before the first shot is made. Both newcomers and experienced practitioners in the area of thermoplastics will benefit from its concise explanations of the methods and equipment used, the components necessary for smart mold design, a checklist for designing a mold, and the variety of finishes and textures available and how they are applied.

Computer-Aided Injection Mold Design and Manufacture This Practical Guide to Injection Moulding is based on course material used by ARBURG in training operators of injection moulding machines. The factors involved in injection moulding from material properties and selection to troubleshooting faults are all examined in this book. It covers the equipment types in use and machine settings for different types of plastics. This Guide will assist progress in developing good technical skills and appropriate processing techniques for the range of plastics and products in the marketplace.

Arburg Practical Guide to Injection Moulding

Knowledge Intensive Design Technology

Handbook of Metal Injection Molding This book provides a comprehensive overview of the steps involved in the ceramic injection molding process. It provides the reader with a convenient and authoritative source of information and guidance on the use of materials, equipment and testing procedures to produce satisfactory ceramic products.

Design with Reinforced Plastics Metal injection molding combines the most useful characteristics of powder metallurgy and plastic injection molding to facilitate the production of small, complex-shaped metal components with outstanding mechanical properties. Handbook of Metal Injection Molding, Second Edition provides an authoritative guide to this important technology and its applications. Building upon the success of the first edition,
this new edition includes the latest developments in the field and expands upon specific processing technologies. Part one discusses the fundamentals of the metal injection molding process with chapters on topics such as component design, important powder characteristics, compound manufacture, tooling design, molding optimization, debinding, and sintering. Part two provides a detailed review of quality issues, including feedstock characterisation, modeling and simulation, methods to qualify a MIM process, common defects and carbon content control. Special metal injection molding processes are the focus of part three, which provides comprehensive coverage of micro components, two material/two color structures, and porous metal techniques. Finally, part four explores metal injection molding of particular materials, and has been expanded to include super alloys and precious metals. With its distinguished editor and expert team of international contributors, the Handbook of Metal Injection Molding is an essential guide for all those involved in the high-volume manufacture of small precision parts, across a wide range of high-tech industries such as microelectronics, biomedical and aerospace engineering. Provides an authoritative guide to metal injection molding and its applications Discusses the fundamentals of the metal injection molding processes and covers topics such as component design, important powder characteristics, compound manufacture, tooling design, molding optimization, debinding and sintering Comprehensively examines quality issues, such as feedstock characterization, modeling and simulation, common defects and carbon content control

Intelligent Optimization of Mold Design and Process Parameters in Injection Molding This book includes high-quality papers presented at the International Conference on Data Science and Management (ICDSM 2019), organised by the Gandhi Institute for Education and Technology, Bhubaneswar, from 22 to 23 February 2019. It features research in which data science is used to facilitate the decision-making process in various application areas, and also covers a wide range of learning methods and their applications in a number of learning problems. The empirical studies, theoretical analyses and comparisons to psychological phenomena described contribute to the development of products to meet market demands.

Multi-Material Injection Moulding This revised 3rd edition details the factors involved in the injection moulding process, from material properties and selection to troubleshooting faults, and includes the equipment types currently in use and machine settings for different types of plastics. Since material flow is critical in moulding, the book covers rheology and viscosity. High temperature is also discussed as it can lead to poor quality mouldings due to material degradation.

Materials and Product Technologies Plastics extrusion is a high volume manufacturing process in which raw plastic material is melted and formed into a continuous profile. Extrusion produces items such as pipe/tubing, weather stripping, fence, deck railing, window frames, adhesive tape and wire insulation. There are fundamentally two different methods of extruding film, namely, below extrusion and slit die extrusion. The design and operation of the extruder up to the die is the same for both methods. The moulding process is one of the most important plastic processing operations. It is an important commercial process whereby a resinous polymeric compound is converted into useful finished articles. The origin of this process is dates back about a century to the invention of a plunger type machine. The mould has its own importance, which give the required shapes of the products. The vast growth of injection moulding is reflected dramatically in many types and sizes of equipment available today. Plastic moulding especially thermoplastic items may be produced by compression moulding methods, but since they are soft at the temperature involved, it is necessary to cool down the mould to before they may be ejected. Injection moulding differs from compression moulding is that the plastic material is rendered fluid in a separate chamber or barrel, outside the mould is then forced into the mould cavity by external pressure. Plastic technology is one of the most vigorous manufacturing branches, characterised by new raw materials, changing requirements, and continuous development in processing methods. The injection moulding machines manufacturers plays an important part in the creation of injection moulding technology, process control, to essential mechanical engineering. Even though design is a specialized phase in engineering field, in tool and mould engineering it is totally divided into two wings as product design and tool and die design. This book basically deals with transport phenomena in polymer films, reinforcements for thermosets, miscellaneous thermoset processes, injection molding, blow molding, extrusion, basic principles of injection moulding, correct injection speed is necessary for filling the mould, plastic melt should not suffer degradation, the mould must be controlled for better quality product, logical consideration of moulding profile and material is important than standard setting guide lines, economical setting of the machine, proper maintenance of machine;, safety operations., preliminary checking for moulding, material, component, mould, machine, injection moulding technique, the various type of injection moulding machines, specifications, platen mounting of moulds, locating spigots, mould clamping, etc. The book
covers manufacturing processes of extruded and moulded products with the various mould designs. This is very useful book for new entrepreneurs, technocrats, researchers, libraries etc.

Developments in Injection Moulding—3 Design with Reinforced Plastics is a comprehensive, accessible guide to fundamental aspects of designing for world markets with this increasingly important range of materials. This unique publication takes full account of the design implications of the single European market, as well as the rapidly changing effects of consumer protection and environmental legislation.

Artificial Intelligence in Design '91 This book describes an effective framework for setting the right process parameters and new mold design to reduce the current plastic defects in injection molding. It presents a new approach for the optimization of injection molding process via (i) a new mold runner design which leads to 20 percent reduction in scrap rate, 2.5 percent reduction in manufacturing time, and easier ejection of injected part, (ii) a new mold gate design which leads to less plastic defects; and (iii) the introduction of a number of promising alternatives with high moldability indices. Besides presenting important developments of relevance academic research, the book also includes useful information for people working in the injection molding industry, especially in the green manufacturing field.

3D Printing of Metals In the field of polymer technology, injection moulding is the most important moulding process. Because of the size of that industry and the rate of development which it attracts, it is impossible to present, in a single reasonably sized volume, all of the developments that have taken place in recent years. The purpose of this book is therefore to present selected topics which contribute to, or exemplify, developments in this important area. Each year considerable development takes place in the area of machine and process control and these developments receive considerable publicity in the trade press. Another area which advances at the same pace, but which seems to receive far less publicity, although it is equally important, is the area of mould design and manufacture. It is important because profitability is dependent upon the design, manufacture and operation of the mould. It is for this reason that several chapters relating to mould design have been included in this, the third volume in this series. The topics covered include advances in mould manufacture, the use of runnerless systems to aid productivity, and others showing how the applications of computers can greatly assist the moulder to obtain a more productive unit.

Computer Aided Design and Manufacturing This book presents the most important aspects of microcellular injection molding with applications for science and industry. The book includes: experimental rheology and pressure-volume-temperature (PVT) data for different gas materials at real injection molding conditions, new mathematical models, micrographs of rheological and thermodynamic phenomena, and the morphologies of microcellular foam made by injection molding. Further, the author proposes two stages of processing for microcellular injection molding, along with a methodology of systematic analysis for process optimization. This gives critical guidelines for quality and quantity analyses for processing and equipment design.

Interdisciplinary Design: Proceedings of the 21st CIRP Design Conference Advances in Design examines recent advances and innovations in product design paradigms, methods, tools and applications. It presents fifty-two selected papers which were presented at the 14th CIRP International Design Seminar held in May 2004 as well as the invited keynote papers. Dr. Waguih ElMaraghy was the conference Chair and Dr. Hoda ElMaraghy was on the program committee. The International Institution for Production Research (CIRP), founded in 1951, is the top production engineering research college worldwide. The CIRP is subdivided into Scientific and Technical Committees (STC's) which are responsible for coordinating cutting-edge research as well as holding highly regarded annual international seminars to disseminate the results. The CIRP "Design" STC meeting is the forum in which the latest developments in the design field are presented and discussed. The Springer Series in Advanced Manufacturing publishes the best teaching and reference material to support students, educators and practitioners in manufacturing technology and management. This international series includes advanced textbooks, research monographs, edited works and conference proceedings covering all subjects in advanced manufacturing. The series focuses on new topics of interest, new treatments of more traditional areas and coverage of the applications of information and communication technology (ICT) in manufacturing.

Proceedings of International Conference on Intelligent Manufacturing and Automation Broad
coverage of digital product creation, from design to manufacture and process optimization. This book addresses the need to provide up-to-date coverage of current CAD/CAM usage and implementation. It covers, in one source, the entire design-to-manufacture process, reflecting the industry trend to further integrate CAD and CAM into a single, unified process. It also updates the computer aided design theory and methods in modern manufacturing systems and examines the most advanced computer-aided tools used in digital manufacturing. Computer Aided Design and Manufacturing consists of three parts. The first part on Computer Aided Design (CAD) offers the chapters on Geometric Modelling; Knowledge Based Engineering; Platforming Technology; Reverse Engineering; and Motion Simulation. The second part on Computer Aided Manufacturing (CAM) covers Group Technology and Cellular Manufacturing; Computer Aided Fixture Design; Computer Aided Manufacturing; Simulation of Manufacturing Processes; and Computer Aided Design of Tools, Dies and Molds (TDM). The final part includes the chapters on Digital Manufacturing; Additive Manufacturing; and Design for Sustainability. The book is also featured for being uniquely structured to classify and align engineering disciplines and computer aided technologies from the perspective of the design needs in whole product life cycles, utilizing a comprehensive Solidworks package (add-ins, toolbox, and library) to showcase the most critical functionalities of modern computer aided tools, and presenting real-world design projects and case studies so that readers can gain CAD and CAM problem-solving skills upon the CAD/CAM theory. Computer Aided Design and Manufacturing is an ideal textbook for undergraduate and graduate students in mechanical engineering, manufacturing engineering, and industrial engineering. It can also be used as a technical reference for researchers and engineers in mechanical and manufacturing engineering or computer-aided technologies.

Troubleshooting Injection Moulding 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.

Official Gazette of the United States Patent and Trademark Office

Injection Molding Handbook

Advances in Data Science and Management This book provides a structured methodology and scientific basis for engineering injection molds. The topics are presented in a top-down manner, beginning with introductory definitions and the big picture before proceeding to layout and detailed design of molds. The book provides very pragmatic analysis with worked examples that can be readily adapted to real-world product design applications. It will help students and practitioners to understand the inner workings of injection molds and encourage them to think outside the box in developing innovative and highly functional mold designs. This new edition has been extensively revised with new content that includes more than 80 new and revised figures and tables, coverage of development strategy, 3D printing, in-mold sensors, and practical worksheets, as well as a completely new chapter on the mold commissioning process, part approval, and mold maintenance.

Comprehensive Materials Finishing Finish Manufacturing Processes are those final stage processing techniques which are deployed to bring a product to readiness for marketing and putting in service. Over recent decades a number of finish manufacturing processes have been newly developed by researchers and technologists. Many of these developments have been reported and illustrated in existing literature in a piecemeal manner or in relation only to specific applications. For the first time, Comprehensive Materials Finishing integrates a wide body of this knowledge and understanding into a single, comprehensive work. Containing a mixture of review articles, case studies and research findings resulting from R & D activities in industrial and academic domains, this reference work focuses on how some finish manufacturing processes are advantageous for a broad range of technologies. These include applicability, energy and technological costs as well as practicability of implementation. The work covers a wide range of materials such as ferrous, non-ferrous and polymeric materials. There are three main distinct types of finishing processes: Surface Treatment by which the properties of the material are modified without generally changing the physical dimensions of the surface; Finish Machining Processes by which a small layer of material is removed from the surface by various machining processes to render improved surface characteristics; and Surface Coating Processes by which the surface properties are improved by adding fine layer(s) of materials with superior surface characteristics. Each of these
primary finishing processes is presented in its own volume for ease of use, making Comprehensive Materials Finishing an essential reference source for researchers and professionals at all career stages in academia and industry. Provides an interdisciplinary focus, allowing readers to become familiar with the broad range of uses for materials finishing. Brings together all known research in materials finishing in a single reference for the first time. Includes case studies that illustrate theory and show how it is applied in practice.

Microcellular Injection Molding

The Complete Technology Book on Plastic Extrusion, Moulding And Mould Designs Artificial Intelligence in Design '91 is a collection of 47 papers from the First International Conference on Artificial Intelligence in Design held at Edinburgh in June 1991. The papers in this book are grouped into 13 headings, starting with a background of AI design systems and to which extent AI that results from being used as planning tool be applied to quality-oriented design processes in architecture. A constraint-driven approach to object-oriented design is also shown on real-world objects. The use of CADSYN in the structural design of buildings is examined, along with design-dependent knowledge and design-independent knowledge. Discussions on empowering designers with integrated design environments are given whereby design objects may be retrieved from catalogues without requiring users to form queries. Mention is given to automated adjustment of parameter values frequently used in computer routine applications. The book also introduces the Computer Aided Design (CAD) as applied to architecture. Design representation using data models, non-monotonic reasoning in design, and the cognitive aspects of design using empirical studies are discussed. Topics of the industrial applications of AI in design, such as the needed steps to develop a successful AI-based tool, and a review of the Castlemain Project and telecommunication distribution networks follow. This book is suitable for programmers, computer science students, and architects and engineers who use computers in their line of work.

Plastic Injection Molding: Mold Design and Construction Fundamentals

About the Book
Injection moulding, one of the most popular commercial manufacturing techniques in the plastic industry, is an automated, highly cost-effective, precise and competent manufacturing technique having ability to produce complex design products. The design of an injection mould is an integral part of the plastic injection moulding technique which affects the quality of the final product. This book is a stepwise guide to design, manufacturing, and validation of an injection mould for ‘Rotor and Cover’ of a plastic component used in a particular model of a two-wheeler. It is very useful for researchers and the people who are working in the area of tool design and manufacturing. About Author Dinbandhu Singh was born in Sohagpur, a small village in Gopalganj District, Bihar, India. He did his schooling from Gita Niketan Awasiya Vidyalaya, Kurukshetra, Haryana. He is an M. Tech in Tool Engineering from R.V. College of Engineering (2011) and B. Tech (2009) in Mechanical Engineering from G. Pulla Reddy Engineering College (Autonomous), Kurnool, Andhra Pradesh. His teaching career started at Al-Habeeb College of Engineering & Technology, Hyderabad, Telangana (then Andhra Pradesh) and later worked at various reputed institutions across the country. Presently, he works as an Assistant Professor in Department of Mechanical Engineering at Vidya Vihar Institute of Technology, Maranga, Purnea, Bihar. He has more than 06 years of teaching experience. His research interests are focused on Material Sciences/Composite Materials. He has published/presented/contributed more than 10 research papers in various international journals and conferences of their repute. He can be emailed at dinosingh@hotmail.co.uk

Rotational Moulding

The book covers innovative research and its applications in infrastructure development and related areas. This book discusses the state-of-the-art development, challenges and unsolved problems in the field of infrastructure/smart development, control engineering, power system infrastructure, smart infrastructure, waste management and renewable energy. The solutions discussed in this book encourage the researchers and IT professionals to put the methods into their practice.

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