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2022-04-14

CARLIE AIYANA

Plastics Handbook Carl Hanser Verlag GmbH Co KG

This introductory book covers the entire spectrum of plastics technology / engineering, from raw materials to finished plastic products. It is not just for university / college students in plastics technology and other engineering disciplines but also for beginners to the field in general. The interconnectivity between the different relevant knowledge areas of plastics technology, such as materials engineering, processing technology, and product development, is emphasized. A chapter "Plastics and the Environment" is also included, covering a topic (rightly) often of great concern to students and newcomers to the field. So includes numerous videos, conveniently linked via QR codes, to better demonstrate key processes visually.

Materials Science of Polymers for Engineers Carl Hanser Verlag GmbH Co KG

Data can be extremely valuable if we are able to extract information from them. This is why multivariate data analysis is essential for business and science. This book offers an easy-to-understand introduction to the most relevant methods of multivariate data analysis. It is strictly application-oriented, requires little knowledge of mathematics and statistics, demonstrates the procedures with numerical examples and illustrates each method via a case study solved with IBM's statistical software package SPSS. Extensions of the methods and links to other procedures are discussed and recommendations for application are given. An introductory chapter presents the basic ideas of the multivariate methods covered in the book and refreshes statistical basics which are relevant to all methods. Contents Introduction to empirical data analysis Regression analysis Analysis of variance Discriminant analysis Logistic regression Contingency analysis Factor analysis Cluster analysis Conjoint analysis The original German version is now available in its 16th edition. In 2015, this book was honored by the Federal Association of German Market and Social Researchers as "the textbook that has shaped market research and practice in German-speaking countries". A Chinese version is available in its 3rd edition. On the website www.multivariate-methods.info, the authors further analyze the data with Excel and R and provide additional material to facilitate the understanding of the different multivariate methods. In addition, interactive flashcards are available to the reader for reviewing selected focal points. Download the Springer Nature Flashcards App and use exclusive content to test your knowledge.

User's Guide to Plastic Springer Science & Business Media

Co-rotating screws and/or extruders are used in many branches of industry for producing, preparing and/or processing highly viscous materials. They find a wide variety of applications especially in the plastics, rubber and food industries. Co-rotating twin-screw machines usually have modular configurations and are thus quite flexible for adapting to changing tasks and material properties. Well-founded knowledge of machines, processes and material behavior are required in order to design twin-screw extruder for economically successful operations. This book provides basic engineering knowledge regarding twin-screw machines; it lists the most important machine-technical requirements and provides examples based on actual practice. Better understanding of the processes is emphasized as this is a prerequisite for optimizing twin-screw designs and operating them efficiently. Besides basic functions, such as compounding, the book focuses on: - the historical development of twin-screws - the geometry of the screw elements (fundamentals, basic patents, patents overview) - material properties and material behavior in the machine - fundamentals of feed behavior, pressure build-up and power input - examples of applications for various processing tasks - compounding: tasks, applications, processing zones - potential and limits of modeling - scaling-up various processes - machine design incl. drives and materials

Plastics Industry 4.0 Carl Hanser Verlag GmbH Co KG

This is an introductory textbook on polymer science aimed at lecturers/professors, undergraduate and graduate students of polymer science and technology courses as well as engineering (materials, chemical, civil, food, etc.), chemistry, and physics. It is also aimed at engineers and technologists. Each chapter is written starting from simple concepts and progressively getting more complex towards its end, to help the reader decide how deep to go into each topic. Each chapter also presents the solution of many proposed problems, guiding the reader to solve numerically the everyday problems polymer technologists face, by applying theoretical concepts. Additionally, at every chapter's end there is a list of problems for the reader to check his/her

understanding of the topics. The book contains a list of more than 10 experiments to perform in the laboratory, linked to some of the concepts discussed in the book. It also serves as a long-term reference with many figures, diagrams, tables, chemical equations containing frequently needed information. It contains as well an appendix with a long list of chemical structures of the main commercially available polymers.

Analyzing and Troubleshooting Single-Screw Extruders Carl Hanser Verlag GmbH Co KG

The *Plastics Handbook* provides everything important there is to know about plastics, comprehensively compiled in a compact and well-organized format. From material properties to machines, processing, and applications, the user will find detailed information that allows the successful implementation of new materials and technologies. This concise, competent, modern reference not only explains the basic facts and interrelationships, but also serves as a practical guide for engineers to help them succeed in today's challenging, global industrial world. Searching for specific materials, properties, or any other information is particularly easy, because the reader also has free access to the electronic version of the book. The 5th edition is comprehensively updated throughout, with a new clearer layout. Also now in full color! Contents: - Common Acronyms in Plastics Technology - Introduction (Economic Significance, Classification, Composition, Effects of Processing on Properties, Modifications of Plastic Materials) - Material Properties and Testing Methods - Plastic Processing Technologies - Plastic Materials - Additives, Fillers, and Fibers - Material Properties Overview

Grippers in Motion Carl Hanser Verlag GmbH Co KG

"The book provides a practical understanding of basic information on extrusion in a way useful to readers without an engineering degree as well as to those new to the field. It is primarily written for extruder operators, supervisors, technical service personnel, and process engineers. Designed for on-the-job use, it guides the reader step by step through material issues, machinery, processing, and troubleshooting. This revised and extended third edition now also covers interpretation of extrusion process data, analysis of shrink void formation, dimensional variation by melt temperature fluctuations, efficient extrusion, grooved barrel extruder technology, and more. Contents: Extrusion Machinery Instrumentation and Control Complete Extrusion Lines Plastics and Their Properties Important in Extrusion How an Extruder Works How to Run an Extruder How to Troubleshoot Extrusion Problems New Developments in Extrusion and Methods to Increase Efficiency"--

Building Automation Hanser Publications

Focus on Applications This book gives an excellent introduction to finite groups and fields as well as their applications. Readers learn to understand and use Galois fields and their relationship with linear feedback shift registers. The book has a strong focus on the technical application of Galois fields, such as navigation systems and cryptography. Includes: Finite Groups and Fields; Working with Galois Fields; Linear Feedback Shift Registers (LFSR); Auto- and Crossrelation Functions; Applications: Navigation Systems, Cryptographical Applications, Channel Coding, Mobile Communication Systems

Statistical Procedures for Machine and Process Qualification Springer Science & Business Media

Discontinuous long fiber reinforced polymer structures with local continuous fiber reinforcements represent an important class of lightweight materials with broad design possibilities and diverse technical applications, e.g. in vehicle construction. However, in contrast to continuous fiber reinforced composites, extensively used in the aircraft industry, there is still a lack of integrated and experimentally proven concepts for manufacture, modeling, and dimensioning of combinations of discontinuously and continuously reinforced polymer structures. This is partly ascribed to the complexity of the manufacturing processes of discontinuously reinforced polymers, with heterogeneous, anisotropic, and nonlinear material and structural properties, but also to the resulting bonding problem of both material types. This book addresses these issues, including both continuous and discontinuous fiber processing strategies. Specific design strategies for advanced composite reinforcement strategies are provided, with an integrated and holistic approach taken for composites material selection, product design, and mechanical properties. Characterization, simulation, technology, design, future research, and implementation directions are also included. Especially in the field of application of three-dimensional load-bearing structures, this book provides an excellent foundation for the enhancement of scientific methods and the education of engineers who need an interdisciplinary understanding of process and material techniques, as well as simulation and product

development methods.

Deutsche Künstler in Amerika 1813-1913 John Wiley & Sons
Das Büro Staab Architekten widmet sich seit seiner Gründung 1991 einem breiten Spektrum von Bauaufgaben, das von Neubauten in sensiblen Stadt- und Landschaftsräumen bis zu Umbauten und Neuinterpretationen von denkmalgeschützten Gebäuden reicht. Seine Handschrift lässt sich nicht anhand formaler Ähnlichkeiten erkennen, sondern in der methodischen Herangehensweise, die hinter der individuellen Entwicklung jedes einzelnen Projektes steckt. Aus den komplexen Rahmenbedingungen jeder Bauaufgabe wird eine Vielzahl von Bezugspunkten bestimmt, aus denen Form, Funktion und Materialität der Bauwerke entwickelt werden. Anhand übergeordneter Themen und einer Auswahl von Projekten wird die Arbeitsweise des Büros aus eigener Sicht und aus der Perspektive des Architekturkritikers Florian Heilmeyer näher beleuchtet.
MicroRNA Interference Technologies Carl Hanser Verlag GmbH Co KG

For the first time, both the art and the science of designing runners and gates are presented in a concise format. Tried and true runner and gating design techniques successfully used with various materials and molding applications are described together with cutting edge new technologies. The book will help readers determine when to use what type of runner system and how to isolate molding problems generated by the gate and runner vs. other molding issues. Much emphasis is placed on the critical features in a hot runner design and how to determine what type of design is best for a specific application. Finally, readers will be able to separate the sales hype from reality when dealing with hot runner suppliers.

Plastics Injection Molding Carl Hanser Verlag GmbH Co KG

This reference book, now in its fourth edition, offers a comprehensive introduction to electrical engineering design with EPLAN Electric P8. Based on Version 2.5 of EPLAN Electric P8, this handbook gives you an introduction to the system basics before going into the range of functions offered by EPLAN Electric P8. This book covers topics such as project settings and various user settings, the graphical editor (GED), using navigators, creating reports, parts management, message management, revision management, importing and exporting project data, printing, data backup, editing master data and importing old EPLAN data. It also covers add-ons such as the EPLAN Data Portal. Numerous examples show you the many ways you can use EPLAN Electric P8 and give you ideas of how to best solve everyday tasks. Practical information, such as a step-by-step procedure for creating schematic projects and a chapter with FAQs, is also included. New topics covering Version 2.5 have also been added to this edition such as enhanced terminal functionality, improved structure management, user configurable properties as well as new reporting capabilities. The creation, management and use of macro projects is also covered in this book. The examples used in the book are available online as an EPLAN Electric P8 project.

Multivariate Analysis Carl Hanser Verlag GmbH Co KG
This book has established itself as a standard reference for everyone dealing with statistical problems in industrial production. The focus is put on the application of the procedures required for machine acceptance and process qualification as well as interpretation of the calculated results. Great value is also set on the visualization of results in many different variations. This helps the practitioner to quickly gain insight into the situations he has to evaluate. Especially the included company guidelines are proof of the practical application and the benefit of the discussed topics in daily practice. This book takes the latest developments in international and national standards (i.e., DIN ISO 21747) into account. The company guidelines of Daimler AG, General Motors Powertrain, Robert Bosch GmbH, Volkswagen AG as well as the Ford Test Examples of the Evaluation of SPC Systems are included. The case examples included in the book as well as most of the charts and tables can be recreated using the qs-STAT(R) demo version. You can download this qs-STAT(R) demo version either from the Q-DAS(R) website (www.q-das.de) or order it directly from Q-DAS(R). The data necessary for handling the case examples are also included in the demo version.

Praxishandbuch Allplan 2011 Carl Hanser Verlag GmbH Co KG
MicroRNAs (miRNAs), endogenous noncoding regulatory mRNAs of around 22-nucleotides long, have rapidly emerged as one of the key governors of the gene expression regulatory program in cells of varying species, with ever-increasing implications in the control of the fundamental biological processes and in the pathogenesis of adult humans. The exciting findings in this field have inspired us with a premise and a promise that miRNAs will ultimately be taken to the heart for therapy of human disease. While miRNAs have been considered potential therapeutic targets for disease

treatment, it remains obscured what strategies we can use to achieve the goal. In the past years, we have witnessed a rapid evolving of many creative, innovative, inventive strategies and methodologies pertinent to miRNA research and applications. These technologies have convincingly demonstrated their efficacy and reliability in producing gain-of-function or loss-of-function of miRNAs through targeting miRNA expression/biogenesis/function, providing new tools for elucidating miRNA functions and opening up a new avenue for the development of new agents targeting miRNAs for therapeutic aims. The present book provides comprehensive descriptions of these technologies and their applications to miRNA research and to new drug design for miRNA-related diseases. It starts with an overview of up-to-date knowledge of miRNA biology and the potential of miRNAs as therapeutic targets for human disease, followed by an introduction of the new concept of miRNA interference (miRNAi) and the perspectives of miRNAi technologies in general terms. In the following, each chapter introduces one of the miRNAi technologies with detailed descriptions of state-of-the-art design, procedures, principles and applications to basic research, R and D and clinical therapy.

Praxishandbuch Allplan 2013 Carl Hanser Verlag GmbH Co KG
This book is written by testers for testers. In ten chapters, the authors provide answers to key questions in agile projects. They deal with cultural change processes for agile testing, with questions regarding the approach and organization of software testing, with the use of methods, techniques and tools, especially test automation, and with the redefined role of the tester in agile projects. The first chapter describes the cultural change brought about by agile development. In the second chapter, which addresses agile process models such as Scrum and Kanban, the authors focus on the role of quality assurance in agile development projects. The third chapter deals with the agile test organization and the positioning of testing in an agile team. Chapter 4 discusses the question of whether an agile tester should be a generalist or a specialist. In Chapter 5, the authors turn to the methods and techniques of agile testing, emphasizing the differences from traditional, phase-oriented testing. In Chapter 6, they describe which documents testers still need to create in an agile project. Next, Chapter 7 explains the efficient use of test automation, which is particularly important in agile development, as it is the main instrument for project acceleration and is necessary to support state-of-the-art DevOps approaches and Continuous Integration. Chapter 8 then adds examples from test tool practice extending test automation to include test management functionality. Chapter 9 is dedicated to training and its importance, emphasizing the role of employee training in getting started with agile development. Finally, Chapter 10 summarizes the results of the agile journey in general with a special focus on testing. To make the aspects described even more tangible, the specific topics of this book are accompanied by the description of experiences from concrete software development projects of various organizations. The examples demonstrate that different approaches can lead to solutions that meet the specific challenges of agile projects.

Agile Testing Springer Nature

Many technical books about plastics are too theoretical and difficult to read. The intention of this book is to offer something completely different: it is easy to read with many examples taken from everyday life. It is suitable for readers at secondary school

and university levels, and can be used for training activities in industry as well as for self-studies. Included are over 600 color images to illustrate the wide variety of plastics and process workflows used today. The book also contains a number of computer-based tools that can be downloaded from the author's website. With comprehensive coverage, this is probably the most versatile plastics handbook ever written! New in the second edition are much-expanded content (new chapter) on extrusion, new color figures, a new layout, and corrections throughout. A bonus download of working Excel tools is provided to supplement the book content.

Understanding Polymer Processing Hanser Publications

This book provides a sophisticated insight into the development of the plastics industry in terms of digitalization and Industry 4.0. The background to these increasingly more important topics is discussed along with the prerequisite knowledge regarding process complexity and data acquisition to build the foundation of data driven digital processes. Furthermore, the facets of so-called cyber physical systems including their key components are discussed and illustrated using industrial application as well as scientific use cases.

EPLAN Electric P8 Carl Hanser Verlag GmbH Co KG

This book shows the true and often-underestimated market potential of plastics recycling, with analysis from economic, ecological, and technical perspectives. It is aimed at both technical and non-technical readers, including decision makers in material suppliers, plastic product manufacturers, governmental agencies, educators, and anyone with a general interest in plastics recycling. An overview of waste handling systems with a focus on the U.S. market is provided. Different methods of waste handling are compared from both economic and ecological perspectives. Since plastic waste recycling is essential from an ecological point of view, common strategies and new approaches to both increase the recycling rate and improve recycling economically and technically are presented. This includes processing and material properties of recycled plastics. Finally, a worldwide outlook of plastic recycling is provided with analysis of additional worldwide markets, encompassing highly developed, fast-developing, and less developed countries. This revised and expanded second edition also contains a new section on fiber-reinforced plastics and considerations for recycling them as well as numerous updates on the data and the context analyzed throughout the book. The spreadsheets used in the economic analyses are also offered as a bonus for the reader to download from plus.hanser-fachbuch.de/en. True to the authors' mission, this book is printed on recycled paper.

Polymer Science Carl Hanser Verlag GmbH Co KG

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 in 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.

Plastics Technology Springer Nature

A comprehensive tutorial on photovoltaic technology now fully updated to include solar storage and the latest methods for on-site plant measurements Starting with the basic principles of solar energy, this fully updated, practical text explains the fundamentals of semiconductor physics and the structure and functioning of the solar cell. It describes the latest measurement techniques for solar modules, and the planning and operation of grid-connected and off-grid PV systems. It also looks at other thin film cells, hybrid wafer cells, and concentrator systems. Additionally, this Second Edition covers solar modules and solar generators; system technology of grid connected plants; the storage of solar energy; photovoltaic measurement technology; the planning and operation of grid-connected systems; economic efficiency of PV systems; and the future development of PV. Presents the latest advances in PV R&D and industry deployment Updated illustrations and tabular data reflect current state-of-the-art and PV technology efficiencies Offers expanded tutorial sections to aid teaching and self-study Includes a brand-new chapter on Solar Energy Storage Features two enlarged chapters—one on up-to-date photovoltaic metrology and the other on the future developments in photovoltaics Comes along with the accompanying website www.textbook-pv.org which offers free downloadable figures of the book, solutions of exercises, additional free PV software etc. Developed to prepare engineering students for the PV industry, this practical text is an essential PV primer.

Co-Rotating Twin-Screw Extruder Carl Hanser Verlag GmbH Co KG

This book provides the background needed to understand not only the wide field of polymer processing, but also the emerging technologies associated with the plastics industry in the 21st Century. It combines practical engineering concepts with modeling of realistic polymer processes. Divided into three sections, it provides the reader with a solid knowledge base in polymer materials, polymer processing, and modeling. "Understanding Polymer Processing" is intended for the person who is entering the plastics manufacturing industry and as a textbook for students taking an introductory course in polymer processing. It also serves as a guide to the practicing engineer when choosing a process, determining important parameters and factors during the early stages of process design, and when optimizing such a process. Practical examples illustrating basic concepts are presented throughout the book. New in the second edition is a chapter on additive manufacturing, together with associated examples, as well as improvements and corrections throughout the book. Contents: o Part I - Polymeric Materials This section gives a general introduction to polymers, including mechanical behavior of polymers and melt rheology o Part II Polymer Processing The major polymer processes are introduced in this section, including extrusion, mixing, injection molding, thermoforming, blow molding, film blowing, and many others. o Part III Modeling This last section delivers the tools to allow the engineer to solve back-of-the-envelope polymer processing models. It includes dimensional analysis and scaling, transport phenomena in polymer processing, and modeling polymer processes