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Implement machine learning and deep learning methodologies to build smart, cognitive AI projects using Python Key FeaturesA go-to guide to help you master AI algorithms and concepts8 real-world projects tackling different challenges in healthcare, e-commerce, and surveillanceUse TensorFlow, Keras, and other Python libraries to implement smart AI applicationsBook Description This book will be a perfect companion if you want to build insightful projects from leading AI domains using Python. The book covers detailed implementation of projects from all the core disciplines of AI. We start by covering the basics of how to create smart systems using machine learning and deep learning techniques. You will assimilate various neural network architectures such as CNN, RNN, LSTM, to solve critical new world challenges. You will learn to train a model to detect diabetic retinopathy conditions in the human eye and create an intelligent system for performing a video-to-text translation. You will use the transfer learning technique in the healthcare domain and implement style transfer using GANs. Later you will learn to build AI-based recommendation systems, a mobile app for sentiment analysis and a powerful chatbot for carrying customer services. You will implement AI techniques in the cybersecurity domain to generate Captchas. Later you will train and build autonomous vehicles to self-drive using reinforcement learning. You will be using libraries from the Python ecosystem such as TensorFlow, Keras and more to bring the core aspects of machine learning, deep learning, and AI. By the end of this book, you will be skilled to build your own smart models for tackling any kind of AI problems without any hassle. What you will learnBuild an intelligent machine translation system using seq-2-seq neural translation machinesCreate AI applications using GAN and deploy smart mobile apps using TensorFlowTranslate videos into text using CNN and RNNImplement smart AI Chatbots, and integrate and extend them in several domainsCreate smart reinforcement, learning-based applications using Q-LearningBreak and generate CAPTCHA using Deep Learning and Adversarial Learning Who this book is for This book is intended for data scientists, machine learning professionals, and deep learning practitioners who are ready to extend their knowledge and potential in AI. If you want to build real-life smart systems to play a crucial role in every complex domain, then this book is what you need. Knowledge of Python programming and a familiarity with basic machine learning and deep learning concepts are expected to help you get the most out of the book

Handbook of Molded Part Shrinkage and Warpage Springer Science & Business Media
This book gives a comprehensive overview of the rapidly evolving field of three-dimensional (3D) printing, and its increasing applications in the biomedical domain. 3D printing has distinct advantages like improved quality, cost-effectiveness, and higher efficiency compared to traditional manufacturing processes. Besides these advantages, current challenges and opportunities regarding choice of material, design, and efficiency are addressed in the book. Individual chapters also focus on select areas of applications such as surgical guides, tissue regeneration, artificial scaffolds and implants, and drug delivery and release. This book will be a valuable source of information for researchers and professionals interested in the expanding biomedical applications of 3D printing.
Toxicity and Hazard of Agrochemicals Elsevier
An in-depth look at the most groundbreaking and controversial comic book series of the last decade.
Japanese Technical Abstracts Grada Publishing a.s.
"A thoughtful, complete, and very readable approach to robust engineering. It presents insights that correlate with those learned at Ford while developing and executing Design for Six Sigma. Having this book three years ago could’ve helped with that effort."–David Amos, DFSS Deployment Director, Ford Motor Company Written by Anna C. Thornton, the well-known author who coined the phrase "variation risk management," this comprehensive book presents new methods and implementation strategies based on her research of industry practices and her personal experience with such companies as The Boeing Company, Eastman Kodak Company, Ford Motor Company, Johnson & Johnson, and many others. Step-by-step guidelines show how you can implement and apply variation risk management to real-world problems within the existing systems of an organization.
Quality Engineering Handbook Springer Science & Business Media
[After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This Standard specifies the dimensional tolerances for the moulded plastic parts made from thermosetting and thermoplastic materials. This Standard is applicable to the moulded plastic parts produced by injection moulding, compression moulding, transfer moulding and cast moulding, and is not applicable to extrusions, blow-moulded parts, sintered parts and foamed mouldings.
The Restaurant John Wiley & Sons
Conducting the Global War on Terrorism (GWOT) and projecting United States (US) influence worldwide has meant an increasing number of US diplomats and military forces are assigned to locations around the world, some of which have not previously had a significant US presence. In the

current security environment, understanding foreign cultures and societies has become a national priority. Cultural understanding is necessary both to defeat adversaries and to work successfully with allies.

Engineered Materials Abstracts Springer

Ammonia is one of the most important inorganic basic chemicals, not only for the manufacture of fertilizers (85%) but also for the production of plastics, fibers, explosives, and intermediates for dyes and pharmaceuticals. It is an essential reaction component for the synthesis of numerous organic chemicals used as solvents and intermediates. The book provides a practical and up-to-date account of the product properties, synthesis and reaction mechanisms, including catalysis and commercial catalysts, modern production technology for different feedstocks, quality specifications and environmental health and safety aspects, uses and economic data of this important commodity chemical. It also discusses perspectives of future developments of commercial ammonia production. Over 1400 references to the relevant literature complete this concise presentation, whose aim is to inform the reader of the present status of the theory and practice of industrial ammonia production. Chemical engineers, engineers and chemists in industry, engineering companies, catalyst manufacturers, equipment makers and chemical engineering university departments will certainly profit from this comprehensive review based on the author's long practical experience in a leading technical management position of one of the largest European ammonia producers.

Quality Management in Plastics Processing BoD – Books on Demand

Engineering Drawing and Design offers the most comprehensive program available. The new exciting full-color text, supplemented with a broad spectrum of learning tools, brings real-world engineering drawing and design right into the classroom. Copyright © Libri GmbH. All rights reserved.

Through the Lens of Cultural Awareness Springer Science & Business Media

The German version of this standard work has provided generations of engineers with a comprehensive source of reference and guidance, on which they can rely throughout their professional lives, and is due to appear in its 19th edition. Now, for the first time, the key sections of this authoritative work are available in English. While DIN standards are retained throughout, the ISO equivalents are given wherever possible. Each subject is discussed in detail and supported by numerous figures and tables, equipping students and practitioners with a concise yet detailed treatment of: Mechanics, Strength of Materials, Thermodynamics, Engineering Design, Hydraulic and Pneumatic Power Transmission, Components of Thermal Apparatus, Machine Dynamics and Components, Manufacturing Process and Systems. Simply a must.

MHC Ligands and Peptide Motifs Elsevier

This book 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. Material flow is a critical parameter in moulding and there are sections covering rheology and viscosity. High temperature is also discussed as it can lead to poor quality mouldings due to material degradation.The text is supported by 74 tables, many of which list key properties and processing parameters, and 233 figures; there are also many photographs of machinery and mouldings to illustrate key points. Troubleshooting flow charts are also included to indicate what should be changed to resolve common problems.Injection moulding in the Western World is becoming increasingly competitive as the manufacturing base for many plastic materials has moved to the East. Thus, Western manufacturers have moved into more technically difficult products and mouldings to provide enhanced added value and maintain market share. Technology is becoming more critical, together with innovation and quality control. There is a chapter on advanced processing in injection moulding covering multimaterial and assisted moulding technologies. This guide will help develop good technical skills and appropriate processing techniques for the range of plastics and products in the marketplace.Every injection moulder will find useful information in this text, in addition, this book will be of use to experts looking to fill gaps in their knowledge base as well as those new to the industry.ARBURG has been manufacturing injection moulding machines since 1954 and is one of the major global players. The company prides itself on the support offered to clients, which is exemplified in its training courses. This book is based on some of the training material and hence is based on years of experience.

Intelligent Projects Using Python Wiley-VCH

"In April of 2003, a stunned world looked on as the armed forces of the United States and Britain conducted a lightning-fast military campaign against Iraq. Confounding predictions of failure, the Anglo-American victory brought down not just the Iraqi regime, but also much of the conventional wisdom about modern war. But even as U.S. and British forces occupied Basra, Tikrit, and Mosul, the Iraqi nation slipped into anarchy - and new military and security challenges emerged." "In this book, respected military analyst Anthony Cordesman provides the first in-depth examination of the key issues swirling around the most significant U.S. war since Vietnam. Finding answers is essential if we are to understand the United States' awesome power and its place in a new age of international terror and regional conflict. Finding answers is also essential if we are to draw the proper lessons and understand the new challenges of conflict termination, peacemaking, and nation building."--BOOK JACKET.

The Iraq War Hanser Gardner Publications

Written by one of the foremost authorities on the subject, the Second Edition is completely revised to reflect the latest changes to the ASQ Body of Knowledge for the Certified Quality Engineer (CQE). This handbook covers every essential topic required by the quality engineer for day-to-day practices in planning, testing, finance, and management and thoroughly examines and defines the principles and benefits of Six Sigma management and organization. The Quality Engineering Handbook provides new and expanded sections on management systems, leadership and facilitation principles and techniques, training, customer relations, documentation systems, domestic and international standards, and more.

Seals and Sealing Handbook Carl Hanser Verlag GmbH Co KG

Economic success in the plastics processing industry depends on the quality, precision, and reliability of its most common tool: the injection mold. Consequently, misjudgments in design and mistakes in the manufacturing of molds can result in grave consequences.

3D Printing in Biomedical Engineering John Wiley & Sons

THE RESTAURANT AN AUTHORITATIVE, UP-TO-DATE, AND ONE-STOP GUIDE TO THE RESTAURANT BUSINESS In the newly revised The Restaurant: From Concept to Operation, Ninth Edition,

accomplished hospitality and restaurant professional John R. Walker delivers a comprehensive exploration of opening a restaurant, from the initial idea to the grand opening. The book offers readers robust, applications-based coverage of all aspects of developing, opening, and running a restaurant. Readers will discover up-to-date material on staffing, legal and regulatory issues, cost control, financing, marketing and promotion, equipment and design, menus, sanitation, and concepts. Every chapter has been revised, updated and enhanced with several industry examples, sidebars, charts, tables, photos, and menus. The ninth edition of The Restaurant: From Concept to Operation provides readers with all the information they need to make sound decisions that will allow for the building of a thriving restaurant business. The book also offers: A thorough introduction to the restaurant business, from the history of eating out to the modern challenges of restaurant operation A comprehensive exploration of restaurants and their owners, including quick-casual, sandwich, family, fine-dining, and other establishments Practical discussions of menus, kitchens, and purchasing, including prices and pricing strategies, menu accuracy, health inspections, and food purchasing systems In-depth examinations of restaurant operations, including bar and beverage service, budgeting and control, and food production and sanitation An indispensable resource for undergraduate and graduate restaurant and food management services and business administration students, The Restaurant: From Concept to Operation, Ninth Edition is also perfect for aspiring and practicing restaurant owners and restaurant investors seeking a one-stop guide to the restaurant business.

Spinner und Weber + [i.e. und] Textilveredlung CSIS

This special volume contains a selection of papers that were presented as part of the Seventh International Symposium on Natural and Man-Made Hazards (HAZARDS-98), held in Chania, Crete Island, Greece, during May 1998. The Symposium attracted broad international interest because many cases of natural disaster events, such as earthquakes, tsunamis, storm surges, forest fires, etc., that occurred in several parts of the world during the 1990s were presented not only for their physics but also from the point of view of their impact on society and their environmental consequences. Among these cases are the 1997 Red River Valley flood in Canada and the large earthquake of 18 November 1997, in Zakynthos, Greece. In addition, the volume contains contributions that apply advanced statistical methods and artificial intelligence techniques, such as GIS, and systems analysis to approach the description of physical processes, the discrimination of experimental data and the assessment and management of risk. Audience: This volume forms an excellent reference for scientists, students, engineers, the insurance industry, authorities specializing in public safety and natural hazards preparedness and mitigation plans.

GB/T 14486-2008: Translated English of Chinese Standard. (GBT 14486-2008, GB/T14486-2008, GBT14486-2008) John Wiley & Sons

Quality Management in Plastics Processing provides a structured approach to the techniques of quality management, also covering topics of relevance to plastics processors. The book's focus isn't just on implementation of formal quality systems, such as ISO 9001, but about real world, practical guidance in establishing good quality management. Ultimately, improved quality management delivers better products, higher customer satisfaction, increased sales, and reduced operation costs. The book helps practitioners who are wondering how to begin implementing quality management techniques in their business focus on key management and technical issues, including raw materials, processing, and operations. It is a roadmap for all company operations, from people, product design, sales/marketing, and production – all of which are impacted by, and involved in, the implementation of an effective quality management system. Readers in the plastics processing industry will find this comprehensive book to be a valuable resource. Helps readers deliver better products, higher customer satisfaction, and increased profits with easily applicable guidance for the plastics industry Provides engineers and technical personnel with the tools they need to start a process of continuous improvement in their company Presents practical guidance to help plastics processing companies organize, stimulate, and complete effective quality improvement projects

Directory of Education Associations Smithers Rapra

The goal of the book is to assist the designer in the development of parts that are functional, reliable, manufacturable, and aesthetically pleasing. Since injection molding is the most widely used manufacturing process for the production of plastic parts, a full understanding of the integrated design process presented is essential to achieving economic and functional design goals. Features over 425 drawings and photographs. Contents: Introduction to Materials. Manufacturing Considerations for Injection Molded Parts. The Design Process and Material Selection. Structural Design Considerations. Prototyping and Experimental Stress Analysis. Assembly of Injection Molded Plastic Parts. Conversion Constants.

Machinery's Handbook 31 Digital Edition CRC Press

Metal toxicity and deficiency are both common abiotic problems faced by plants. While metal contamination around the world is a critical issue, the bioavailability of some essential metals like zinc (Zn) and selenium (Se) can be seriously low in other locations. The list of metals spread in high concentrations in soil, water and air includes several toxic as well as essential elements, such as arsenic (As), cadmium (Cd), chromium (Cr), aluminum (Al), and selenium (Se). The problems for some metals are geographically confined, while for others, they are widespread. For instance, arsenic is an important toxic metalloid whose contamination in Southeast Asia and other parts of world is well documented. Its threats to human health via food consumption have generated immense interest in understanding plants' responses to arsenic stress. Metals constitute crucial components of key enzymes and proteins in plants. They are important for the proper growth and development of plants. In turn, plants serve as sources of essential elements for humans and animals. Studies of their physiological effects on plants metabolism have led to the identification of crucial genes and proteins controlling metal uptake and transport, as well as the sensing and signaling of metal stresses. Plant-Metal Interactions sheds light on the latest development and research in analytical biology with respect to plant physiology. More importantly, it showcases the positive and negative impacts of metals on crop plants growth and productivity.

Natural Lactones and Lactams William Andrew

How easy life would be if only moldings were the same size and shape as the mold. But they never are, as molders, toolmakers, designers and end users know only too well. Shrinkage means that the size is always different; warpage often changes the shape too. The effects are worse for some plastics than others. Why is that? What can you do about it? The Handbook of Molded Part Shrinkage and Warpage is the first and only book to deal specifically with this fundamental problem. Jerry

Fischer’s Handbook explains in plain terms why moldings shrink and warp, shows how additives and reinforcements change the picture, sets out the effect of molding process conditions, and explains why you never can have a single ‘correct’ shrinkage value. It goes on to demonstrate how to alleviate the problem through careful design of the molded part and the mold, and by proper material selection. It also examines computer-aided methods of forecasting shrinkage and warpage. And most important of all, the Handbook gives you the data you need to work with. . Authoritative and rooted in extensive industrial experience, the expert guidance contained in this handbook offers practical understanding to novices, and new insights to readers already skilled in the art of injection molding and mold making. Contains the answers to common problems and detailed advice on how to control mold and post-mold shrinkage and warpage. Case Studies illustrate and enrich the text; Data tables provide the empirical data that is essential for success, but hard to come by.

ARBURG Practical Guide to Injection Moulding Springer

This edited book, Toxicity and Hazard of Agrochemicals, is intended to provide an overview of toxicology that examines the hazardous effects of common agrochemicals employed every day in our agricultural practices. Furthermore, it is hoped that the information in the present book will be of value to those directly engaged in the handling and use of agrochemicals and that this book will continue to meet the expectations and needs of all interested in the different aspects of human and environmental risk toxicities.