

Hybrid Electrical Vehicles In Ynieria Pojazd W

Nanoscience and Nanotechnologies
Planning and Control of Maintenance Systems
Food Process Engineering Operations
Shaping the Future of ICT
Mechanics of Agricultural Materials
Innovative Perspective of Transport and Logistics
Maintenance Engineering Handbook
Introduction to Precision Machine Design and Error Assessment
Handbook of Virtual Environments
Managing Protected Areas in Central and Eastern Europe
Under Climate Change
Mercury Contaminated Sites
Finite Element Analysis Concepts
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Toxicology Fungi from Different Environments
Design Rules for Actuators in Active Mechanical
Systems
Seismic Behaviour and Design of Irregular
and Complex Civil Structures II
Thermoplastic Starch
Treatment Wetlands for Environmental
Pollution Control

Nanoscience and Nanotechnologies

A comprehensive review of international and national standards and guidelines, this handbook consists of 32 chapters divided into nine sections that cover standardization efforts, anthropometry and working postures, designing manual material, human-computer interaction, occupational health and safety, legal protection, military human factor standar

Planning and Control of Maintenance Systems

The book presents a synopsis of the main results achieved during the 3 year EU-project "Advanced Inflight Measurement Techniques (AIM)" which applied advanced image based measurement techniques to industrial flight testing. The book is intended to be not only an overview on the AIM activities but also a guide on the application of advanced optical measurement techniques for future flight testing. Furthermore it is a useful guide for engineers in the field of experimental methods and flight testing who face the challenge of a future requirement for the development of highly accurate non-intrusive in-flight

measurement techniques.

Food Process Engineering Operations

These five-volume series provide a comprehensive overview of all important aspects of drying technology like computational tools at different scales (Volume 1), modern experimental and analytical techniques (Volume 2), product quality and formulation (Volume 3), energy savings (Volume 4) and process intensification (Volume 5) Based on high-level cutting-edge results contributed by internationally recognized experts in the various treated fields, this book series will help engineers achieve greater efficiency for an unavoidable, yet vital process Located at the intersection of the two main approaches in modern chemical engineering, product engineering and process systems engineering, the series brings theory into practice in order to improve the quality of high-value dried products, save energy, and cut the costs of drying processes Available in print as 5 Volume Set or as individual volumes. Buy the Set and SAVE 30%! Also available online. For further information, visit wileyonlinelibrary.com Individual volumes: Volume 1 - Modern Drying Technology, Computational Tools at Different Scales Volume 1: Diverse model types for the drying of products and the design of drying processes (short-cut methods, homogenized, pore network, and continuous thermo-mechanical approaches) are treated, along with computational fluid dynamics, population balances, and process systems simulation tools. Emphasis is put on scale transitions. Volume 2 - Modern Drying Technology:

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Experimental Techniques Volume 2: Comprises experimental methods used in various industries and in research in order to design and control drying processes, measure moisture and moisture distributions, characterize particulate material and the internal micro-structure of dried products, and investigate the behavior of particle systems in drying equipment. Key topics include acoustic levitation, near-infrared spectral imaging, magnetic resonance imaging, X-ray tomography, and positron emission tracking. Volume 3 - Modern Drying Technology: Product Quality and Formulation Volume 3: Discusses how desired properties of foods, biomaterials, active pharmaceutical ingredients, and fragile aerogels can be preserved during drying, and how spray drying and spray fluidized bed processes can be used for particle formation and formulation. Methods for monitoring product quality, such as process analytical technology, and modeling tools, such as Monte Carlo simulations, discrete particle modeling and neural networks, are presented with real examples from industry and academia. Volume 4 - Modern Drying Technology: Energy Savings Volume 4: Deals with the reduction of energy demand in various drying processes and areas, highlighting the following topics: Energy analysis of dryers, efficient solid-liquid separation techniques, osmotic dehydration, heat pump assisted drying, zeolite usage, solar drying, drying and heat treatment for solid wood and other biomass sources, and sludge thermal processing. Volume 5 - Process Intensification Volume 5: Dedicated to process intensification by more efficient distribution and flow of the drying medium, foaming, controlled freezing, and the application of

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superheated steam, infrared radiation, microwaves, power ultrasound and pulsed electric fields. Process efficiency is treated in conjunction with the quality of sensitive products, such as foods, for a variety of hybrid and combined drying processes.

Shaping the Future of ICT

Structural irregularities are one of the most frequent causes of severe damages in buildings, as evidenced by the numerous earthquakes in recent years. This issue is of particular importance, since real structures are almost all irregular. Furthermore, structural irregularities depend on several factors often very difficult to predict. This book is an essential tool for understanding the problem of structural irregularities and provides the most up-to-date review on this topic, covering the aspects of ground rotations, analysis, design, control and monitoring of irregular structures. It includes 24 contributions from authors of 13 countries, giving a complete and international view of the problem.

Mechanics of Agricultural Materials

The book presents a collection of 103 peer-reviewed articles from the Second International Conference on Intelligent Systems in Production Engineering and Maintenance (ISPPEM 2018). The conference was organized by the Faculty of Mechanical Engineering and CAMT (Centre for Advanced Manufacturing Technologies), Wrocław University of Science and Technology and was held in Wrocław (Poland) on

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17–18 September 2018. The conferences topics included the possibility of using a wide range of intelligent methods in production engineering, presenting and discussing new solutions for innovative plants, research findings and case studies demonstrating advances in production and maintenance from the point of view of Industry 4.0 – particularly applications of intelligent systems, methods and tools in production engineering, maintenance, logistics, quality management, information systems and product development. The book is divided into two parts: the first includes papers related to intelligent systems in production engineering, while the second is dedicated to special sessions focusing on: 1. Computer Aided methods in Production Engineering 2. Mining 4.0 and Intelligent Mining Transportation 3. Modelling and Simulation of Production Processes 4. Multi-Faceted Modelling of Networks and Processes 5. Product Design and Product Manufacturing in Industry 4.0 This book is an excellent source of information for scientists in the field of manufacturing engineering and for top managers in production enterprises.

Innovative Perspective of Transport and Logistics

The International Conference on Communications, Management, and Information Technology (ICCMIT'16) provides a discussion forum for scientists, engineers, educators and students about the latest discoveries and realizations in the foundations, theory, models and applications of systems inspired

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on nature, using computational intelligence methodologies, as well as in emerging areas related to the three tracks of the conference: Communication Engineering, Knowledge, and Information Technology. The best 25 papers to be included in the book will be carefully reviewed and selected from numerous submissions, then revised and expanded to provide deeper insight into trends shaping future ICT.

Maintenance Engineering Handbook

The aim of this book is to present an overview of the state of the art with regard to the function, application and design of TWSs in order to better protect surface water from contamination. Accordingly, it also presents applications of constructed wetlands with regard to climatic and cultural aspects. The use of artificial and natural treatment wetland systems (TWSs) for wastewater treatment is an approach that has been developed over the last thirty years. Europe is currently home to roughly 10,000 constructed wetland treatment systems (CWTSS), which simulate the aquatic habitat conditions of natural marsh ecosystems; roughly 3,500 systems are in operation in Germany alone. TWSs can also be found in many other European countries, for example 200 – 400 in Denmark, 400 – 600 in Great Britain, and ca. 1,000 in Poland. Most of the existing systems serve as local or individual household treatment systems. CWTSS are easy to operate and do not require specialized maintenance; further, no biological sewage sludge is formed during treatment processes. As TWSs are resistant to

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fluctuations in hydraulic loads, they are primarily used in rural areas as well as in urbanized areas with dispersed habitats, where conventional sewer systems and central conventional wastewater treatment plants (WWTPs) cannot be applied due to the high costs they would entail. TWSs are usually applied at the 2nd stage of domestic wastewater treatment, after mechanical treatment, and/or at the 3rd stage of treatment in order to ensure purification of effluent from conventional biological reactors and re-naturalization. New applications of TWSs include rainwater treatment as well as industrial and landfill leachate treatment. TWSs are well suited to these fields, as they can potentially remove not only organic matter and nitrogen compounds but also trace metals and traces of persistent organic pollutants and pathogens. Based on the practical experience gathered to date, and on new research regarding the processes and mechanisms of pollutant removal and advances in the systems properties and design, TWSs continue to evolve.

Introduction to Precision Machine Design and Error Assessment

"Design Rules for Actuators in Active Mechanical Systems" deals with the formulation of model-based design rules to be used in the conception of optimized mechatronic and adaptronic systems. The book addresses the comparison of different actuator classes for given applications and offers answers to the following questions: What is the relationship between actuator geometry and primary output

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quantities? How scalable are actuators based on the same principle? How are energetic output quantities (work and power) related to mechanical load and geometry? How should actuators be designed and sized to obtain the best performance for the chosen actuator kind, and for a given application? "Design Rules for Actuators in Active Mechanical Systems" will be of use to industry professionals, such as actuator and machine designers, as well as to researchers and students of mechanical engineering, mechatronics, and electrical engineering.

Handbook of Virtual Environments

This book provides a detailed introduction to maintenance policies and the current and future research in these fields, highlighting mathematical formulation and optimization techniques. It comprehensively describes the state of art in maintenance modelling and optimization for single- and multi-unit technical systems, and also investigates the problem of the estimation process of delay-time parameters and how this affects system performance. The book discusses delay-time modelling for multi-unit technical systems in various reliability structures, examining the optimum maintenance policies both analytically and practically, focusing on a delay-time modelling technique that has been employed by researchers in the field of maintenance engineering to model inspection intervals. It organizes the existing work into several fields, based mainly on the classification of single- and multi-unit models and assesses the applicability

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of the reviewed works and maintenance models. Lastly, it identifies potential future research directions and suggests research agendas. This book is a valuable resource for maintenance engineers, reliability specialists, and researchers, as it demonstrates the latest developments in maintenance, inspection and delay-time-based maintenance modelling issues. It is also of interest to graduate and senior undergraduate students, as it introduces current theory and practice in maintenance modelling issues, especially in the field of delay-time modelling.

Managing Protected Areas in Central and Eastern Europe Under Climate Change

The first edition of Handbook of Human Factors and Ergonomics in Health Care and Patient Safety took the medical and ergonomics communities by storm with in-depth coverage of human factors and ergonomics research, concepts, theories, models, methods, and interventions and how they can be applied in health care. Other books focus on particular human factors and ergonomics issues such as human error or design of medical devices or a specific application such as emergency medicine. This book draws on both areas to provide a compendium of human factors and ergonomics issues relevant to health care and patient safety. The second edition takes a more practical approach with coverage of methods, interventions, and applications and a greater range of domains such as medication safety, surgery, anesthesia, and infection prevention. New topics include: work

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schedules error recovery telemedicine workflow analysis simulation health information technology development and design patient safety management Reflecting developments and advances in the five years since the first edition, the book explores medical technology and telemedicine and puts a special emphasis on the contributions of human factors and ergonomics to the improvement of patient safety and quality of care. In order to take patient safety to the next level, collaboration between human factors professionals and health care providers must occur. This book brings both groups closer to achieving that goal.

Mercury Contaminated Sites

Irregular engineering structures are subjected to complicated additional loads which are often beyond conventional design models developed for traditional, simplified plane models. This book covers detailed research and recent progress in seismic engineering dealing with seismic behaviour of irregular and set-back engineering structures. Experimental results as well as special topics of modern design are discussed in detail. In addition, recent progress in seismology, wave propagation and seismic engineering, which provides novel, modern modelling of complex seismic loads, is reported. Particular emphasis is placed on the newly developed rotational, seismic ground-motion effects. This book is a continuation of an earlier monograph which appeared in the same Springer series in 2013 (<http://www.springer.com/gp/book/9789400753761>).

Finite Element Analysis Concepts

This first book on this new green material collates all the information hitherto scattered in journal articles and on websites, thus meeting the application-oriented needs of the reader. The contents stretch between many important areas, such as production and applications of biopolymeric material, fundamental knowledge and practical applications, and includes valuable experimental case studies, which can be directly used in industrial practice. All the data satisfies EU environmental regulations, which are the most stringent worldwide.

Long and Deep Tunnels

Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

Diagnostic Measurements in LSI/VLSI Integrated Circuits Production

Beginning with an overview of data and concepts developed in the EU-project HABIT-CHANGE, this book addresses the need for sharing knowledge and experience in the field of biodiversity conservation and climate change. There is an urgent need to build capacity in protected areas to monitor, assess, manage and report the effects of climate change and

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their interaction with other pressures. The contributors identify barriers to the adaptation of conservation management, such as the mismatch between planning reality and the decision context at site level. Short and vivid descriptions of case studies, drawn from investigation areas all over Central and Eastern Europe, illustrate both the local impacts of climate change and their consequences for future management. These focus on ecosystems most vulnerable to changes in climatic conditions, including alpine areas, wetlands, forests, lowland grasslands and coastal areas. The case studies demonstrate the application of adaptation strategies in protected areas like National Parks, Biosphere Reserves and Natural Parks, and reflect the potential benefits as well as existing obstacles. A general section provides the necessary background information on climate trends and their effects on abiotic and biotic components. Often, the parties to policy change and conservation management, including managers, land users and stakeholders, lack both expertise and incentives to undertake adaptation activities. The authors recognise that achieving the needed changes in behavior – habit – is as much a social learning process as a matter of science-based procedure. They describe the implementation of modeling, impact assessment and monitoring of climate conditions, and show how the results can support efforts to increase stakeholder involvement in local adaptation strategies. The book concludes by pointing out the need for more work to communicate the cross-sectoral nature of biodiversity protection, the value of well-informed planning in the long-term process of adaptation, the definition of acceptable change, and

the motivational value of exchanging experience and examples of good practice.

Seismic Behaviour and Design of Irregular and Complex Civil Structures

A unique and interdisciplinary field, food processing must meet basic process engineering considerations such as material and energy balances, as well as the more specialized requirements of food acceptance, human nutrition, and food safety. Food engineering, therefore, is a field of major concern to university departments of food science, and chemical and biological engineering as well as engineers and scientists working in various food processing industries. Part of the notable CRC Press Contemporary Food Engineering series, Food Process Engineering Operations focuses on the application of chemical engineering unit operations to the handling, processing, packaging, and distribution of food products. Chapters 1 through 5 open the text with a review of the fundamentals of process engineering and food processing technology, with typical examples of food process applications. The body of the book then covers food process engineering operations in detail, including theory, process equipment, engineering operations, and application examples and problems. Based on the authors' long teaching and research experience both in the US and Greece, this highly accessible textbook employs simple diagrams to illustrate the mechanism of each operation and the main components of the process equipment. It uses simplified calculations requiring

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only elementary calculus and offers realistic values of food engineering properties taken from the published literature and the authors' experience. The appendix contains useful engineering data for process calculations, such as steam tables, engineering properties, engineering diagrams, and suppliers of process equipment. Designed as a one or two semester textbook for food science students, Food Process Engineering Operations examines the applications of process engineering fundamentals to food processing technology making it an important reference for students of chemical and biological engineering interested in food engineering, and for scientists, engineers, and technologists working in food processing industries.

Advanced In-Flight Measurement Techniques

The focus of this book is on the management of the geoenvironment. It seeks to explain how, through an understanding of the environmental processes that take place in rocks, soils, waters, sediments, air and so on, the resources contained in them could be managed sustainably. Topics covered in the book include: Ecologically-sustainable industrial development; dynamics of the geoenvironment; the impact of mining on rocks, soils, water and biota; the natural radiation environment; the use of geotechnology to mitigate the consequences of natural disasters and the disposal of various kinds of waste, particularly hazardous waste. The models proposed by the World Bank on how to make

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environmental amelioration economically viable are also looked at.

Vanished Kingdoms

Safety of Sea Transportation is the second of two Conference Proceedings of TransNav 2017, June 21-23 in Gdynia, Poland. Safety of Sea Transportation will focus on the following themes: Sustainability, intermodal and multimodal transportation Safety and hydrodynamic study of hydrotechnical structures Bunkering and fuel consumption Gases emission, water pollution and environmental protection Occupational accidents Supply chain of blocks and spare parts Electrotechnical problems Ships stability and loading strength Cargo loading and port operations Maritime Education and Training (MET) Human factor, crew manning and seafarers problems Economic analysis Mathematical models, methods and algorithms Fishery Legal aspects Aviation

Geoenvironment, An Introduction

Young engineers are often required to utilize commercial finite element software without having had a course on finite element theory. That can lead to computer-aided design errors. This book outlines the basic theory, with a minimum of mathematics, and how its phases are structured within a typical software. The importance of estimating a solution, or verifying the results, by other means is emphasized and illustrated. The book also demonstrates the common processes for utilizing the typical graphical

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icon interfaces in commercial codes. In particular, the book uses and covers the widely utilized SolidWorks solid modeling and simulation system to demonstrate applications in heat transfer, stress analysis, vibrations, buckling, and other fields. The book, with its detailed applications, will appeal to upper-level undergraduates as well as engineers new to industry.

Trace Elements in the Rhizosphere

Report on the current state of scientific knowledge about nanotechnologies, how they might be used in the future, and potential health, safety, environmental, ethical and societal implications.

Molecular Genetics of Bacteria

Stay Up to Date on the Latest Issues in Maintenance Engineering The most comprehensive resource of its kind, Maintenance Engineering Handbook has long been a staple for engineers, managers, and technicians seeking current advice on everything from tools and techniques to planning and scheduling. This brand-new edition brings you up to date on the most pertinent aspects of identifying and repairing faulty equipment; such dated subjects as sanitation and housekeeping have been removed. Maintenance Engineering Handbook has been advising plant and facility professionals for more than 50 years. Whether you're new to the profession or a practiced veteran, this updated edition is an absolute necessity. New and updated sections include: Belt Drives, provided by the Gates Corporation Repair and Maintenance

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Cost Estimation Ventilation Fans and Exhaust Systems
10 New Chapters on Maintenance of Mechanical Equipment Inside: • Organization and Management of the Maintenance Function • Maintenance Practices • Engineering and Analysis Tools • Maintenance of Facilities and Equipment • Maintenance of Mechanical Equipment • Maintenance of Electrical Equipment • Instrumentation and Reliability Tools • Lubrication • Maintenance Welding • Chemical Corrosion Control and Cleaning

Technical System Maintenance

Drying grain is necessary for proper storage, handling and processing; the methods used for drying grain have an important influence on quality and the overall economics of the process. This book provides all the tools needed for effective grain drying, including mathematical theory, tabulated data on the physical and thermal properties of grains, and more.

Grain Drying

This book focuses on biomaterials of different forms used for medical implants. The authors introduce the characteristics and properties of biomaterials and then dedicate special chapters to metallic, ceramic, polymeric and composite biomaterials. Case studies on sterilization methods by biomaterials are also presented. Finally, the authors describe the degradation and effects of biomaterials in living tissue.

Handbook of Human Factors and Ergonomics in Health Care and Patient Safety, Second Edition

Intelligent Systems in Production Engineering and Maintenance

Providing the single most comprehensive and authoritative textbook on bacterial molecular genetics, this updated edition provides descriptive background information, detailed experimental methods, examples of genetic analyses, and advanced material relevant to current applications of molecular genetics.

Uprooted

This book groups the main advances in material forming, considering different processes, both conventional and non-conventional. It focuses on polymers, composites and metals, which are analyzed from the state of the art. Special emphasis is devoted to the contributions of the European Scientific Association for Material Forming (ESAFORM) during the last decade and in particular the ones coming from its annual international conference.

Engineering of Biomaterials

This Handbook, with contributions from leading experts in the field, provides a comprehensive, state-

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of-the-art account of virtual environments (VE). It serves as an invaluable source of reference for practitioners, researchers, and students in this rapidly evolving discipline. It also provides practitioners with a reference source to guide their development efforts and addresses technology concerns, as well as the social and business implications with which those associated with the technology are likely to grapple. While each chapter has a strong theoretical foundation, practical implications are derived and illustrated via the many tables and figures presented throughout the book. The Handbook presents a systematic and extensive coverage of the primary areas of research and development within VE technology. It brings together a comprehensive set of contributed articles that address the principles required to define system requirements and design, build, evaluate, implement, and manage the effective use of VE applications. The contributors provide critical insights and principles associated with their given area of expertise to provide extensive scope and detail on VE technology. After providing an introduction to VE technology, the Handbook organizes the body of knowledge into five main parts:

- *System Requirements--specifies multimodal system requirements, including physiological characteristics that affect VE system design.
- *Design Approaches and Implementation Strategies--addresses cognitive design strategies; identifies perceptual illusions that can be leveraged in VE design; discusses navigational issues, such as becoming lost within a virtual world; and provides insights into structured approaches to content design.
- *Health and Safety Issues--covers direct physiological effects, signs, symptoms,

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neurophysiology and physiological correlates of motion sickness, perceptual and perceptual-motor adaptation, and social concerns.

*Evaluation--addresses VE usability engineering and ergonomics, human performance measurement in VEs, usage protocols; and provides means of measuring and managing visual, proprioceptive, and vestibular aftereffects, as well as measuring and engendering sense of presence. *Selected

Applications of Virtual Environments--provides a compendium of VE applications. The Handbook closes with a brief review of the history of VE technology.

The final chapter provides information on the VE profession, providing those interested with a number of sources to further their quest for the keys to developing the ultimate virtual world.

Advances in Material Forming

Rethinking Resilience, Adaptation and Transformation in a Time of Change

Mycologists now look at the genes of fungi to decipher many features that they have been studying in the past beyond just looking at the morphology and other such traits of these organisms. Fungi are also attracting the attention of scientists in various other disciplines. These include the search for useful fungi in various extreme environments th

Safety of Sea Transportation

Handbook of Standards and Guidelines in Ergonomics and Human Factors

Occupational safety and health — safe work in a safe environment. The challenge, of course, is how to make this happen and make it happen economically. A comprehensive study presenting the state of the art in the field, Handbook of Occupational Safety and Health provides a wide range of methods along with specific criteria for assessing hazard and exposure in the workplace environment. More importantly, it also offers ways to reduce these hazards. The book supplies a compendium of interdisciplinary knowledge that includes physical, chemical, and psychosocial risk factors in the working environment, highlighting issues in Occupational Safety and Health management. The book discusses the ergonomic principles of shaping products, workstands, and work processes, highlighting the significance of international requirements for competitiveness in world economy. It presents the scientific basis for each safety and health issue, followed by well-illustrated case studies to demonstrate the concepts and theories and their application in real-world situations. Based on the results of international research, the book covers: Psychological capabilities of humans in the working environment Basic risk factors in the working environment Law-based protection of labor The effects of hazards in work processes Basic directions in shaping conditions of occupational safety and ergonomics Developed by a team of renowned contributors, the book includes strategies for creating safe working conditions,

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accurately assessing hazards posed by harmful environmental factors, and preventing occupational accidents and diseases. Meticulously designed to be user-friendly, it provides the tools to create a safety culture beginning at the enterprise level through to the individual employee.

Physical Control of the Mind

Analyzing maintenance as an integrated system with objectives, strategies and processes that need to be planned, designed, engineered, and controlled using statistical and optimization techniques, the theme of this book is the strategic holistic system approach for maintenance. This approach enables maintenance decision makers to view maintenance as a provider of a competitive edge not a necessary evil.

Encompassing maintenance systems; maintenance strategic and capacity planning, planned and preventive maintenance, work measurements and standards, material (spares) control, maintenance operations and control, planning and scheduling, maintenance quality, training, and others, this book gives readers an understanding of the relevant methodology and how to apply it to real-world problems in industry. Each chapter includes a number exercises and is suitable as a textbook or a reference for a professionals and practitioners whilst being of interest to industrial engineering, mechanical engineering, electrical engineering, and industrial management students. It can also be used as a textbook for short courses on maintenance in industry. This text is the second edition of the book,

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which has four new chapters added and three chapters are revised substantially to reflect development in maintenance since the publication of the first edition. The new chapters cover reliability centered maintenance, total productive maintenance, e-maintenance and maintenance performance, productivity and continuous improvement.

Modern Drying Technology

This book describes means in improving the technology of LSI/VLSI ICs production. It does so by concentrating on improvements of manufacturing yield and quality of the products by detecting weak points which should be eliminated on the way up the learning curve. The book presents a systematic approach to the problem, covering primarily methods based on the use of test patterns measurements, in both mass production and in research and development activities. The main groups of defects found in IC chips and ways to detect them using test structures are discussed in detail.

A Grammar of Contemporary Polish

The importance of economical production of agricultural materials, especially crops and animal products serving as base materials for foodstuffs, and of their technological processing (mechanical operations, storage, handling etc.) is ever-increasing. During technological processes agricultural materials may be exposed to various mechanical, thermal, electrical, optical and acoustical (e.g. ultrasonic)

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effects. To ensure optimal design of such processes, the interactions between biological materials and the physical effects acting on them, as well as the general laws governing the same, must be known. The mechanics of agricultural materials, as a scientific discipline, is still being developed, and therefore has no exact methods as yet, in many cases. However, the methods developed so far can already be utilized successfully for designing and optimizing machines and technological processes. This present work is the first attempt to summarize the calculation methods developed in the main fields of agricultural mechanics, and to indicate the material laws involved on the basis of a unified approach, with all relevant physico-mechanical properties taken into account. The book deals with material properties, gives the necessary theoretical background for description of the mechanical behaviour of these materials including modern powerful calculation methods and finally discusses a large number of experimental results. Many of them can only be found in this book. Special attention is paid to the unified approach concerning theory and practice. The systematic treatment of the material makes the book useful to a wide circle of designers, researchers and students in the field of agricultural engineering. The book can also be used as a textbook at technical and agricultural universities.

Handbook of Occupational Safety and Health

An up-to-date overview of the characterization, risk

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assessment and remediation of mercury-contaminated sites. The book summarizes, for the first time, works from Europe, Russia and the American continent, and review chapters are supplemented by detailed, international case studies.

Reviews of Environmental Contamination and Toxicology

An evocative account of fourteen European kingdoms-their rise, maturity, and eventual disappearance. There is something profoundly romantic about lost civilizations. Europe's past is littered with states and kingdoms, large and small, that are scarcely remembered today, and while their names may be unfamiliar-Aragon, Etruria, the Kingdom of the Two Burgundies-their stories should change our mental map of the past. We come across forgotten characters and famous ones-King Arthur and Macbeth, Napoleon and Queen Victoria, right up to Stalin and Gorbachev-and discover how faulty memory can be, and how much we can glean from these lost empires. Davies peers through the cracks in the mainstream accounts of modern-day states to dazzle us with extraordinary stories of barely remembered pasts, and of the traces they left behind. This is Norman Davies at his best: sweeping narrative history packed with unexpected insights. Vanished Kingdoms will appeal to all fans of unconventional and thought-provoking history, from readers of Niall Ferguson to Jared Diamond.

Fungi from Different Environments

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While ultra-precision machines are now achieving sub-nanometer accuracy, unique challenges continue to arise due to their tight specifications. Written to meet the growing needs of mechanical engineers and other professionals to understand these specialized design process issues, *Introduction to Precision Machine Design and Error Assessment* places a particular focus on the errors associated with precision design, machine diagnostics, error modeling, and error compensation. *Error Assessment and Control* The book begins with a brief overview of precision engineering and applications before introducing error measurements and offering an example of a numerical-controlled machine error assessment. The contributors discuss thermal error sources and transfer, modeling and simulation, compensation, and machine tool diagnostics, and then examine the principles and strategies involved in designing standard-size precision machines. Later chapters consider parallel kinematic machines, the precision control techniques covering linear systems and nonlinear aspects, and various types of drives, actuators, and sensors required for machines. Case studies and numerous diagrams and tables are provided throughout the book to clarify material. *A Window Into the Future of High-Precision Manufacturing* Achieving ultra-high precision in the manufacture of extremely small devices opens up prospects in several diverse and futuristic fields, while at the same time greatly increases our living standards by offering quality and reliability for conventional products and those on the microscale. With contributions by a team of international experts, this work serves as a comprehensive and

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authoritative reference for professionals aiming to stay abreast of this developing area.

Design Rules for Actuators in Active Mechanical Systems

This book contributes to the literature on resilience, hazard planning, risk management, environmental policy and design, presenting articles that focus on building resilience through social and technical means. Bringing together contributions from Japanese authors, the book also offers a rare English-language glimpse into current policy and practice in Japan since the 2011 Tohoku disaster. The growth of resilience as a common point of contact for fields as disparate as economics, architecture and population politics reflects a shared concern about our capacity to cope with and adapt to change. The ability to bounce back from hardship and disaster is essential to all of our futures. Yet, if such ability is to be sustainable, and not rely on a “brute force” response, innovation will need to become a core practice for policymakers and on-the-ground responders alike. The book offers a valuable reference guide for graduate students, researchers and policy analysts who are looking for a holistic but practical approach to resilience planning.

Seismic Behaviour and Design of Irregular and Complex Civil Structures II

The design and construction of “long and deep” tunnels, i.e. tunnels under mountains, characterised by either considerable length and/or overburden,

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represent a considerable challenge. The scope of this book is not to instruct how to design and construct such tunnels but to share a method to identify the potential hazards related to the process of designing and constructing long and deep tunnels, to produce a relevant comprehensive analysis and listing, to quantify the probability and consequences, and to design proper mitigation measures and countermeasures. The design, developed using probabilistic methods, is verified during execution by means of the so called Plan for Advance of the Tunnel (PAT) method, which allows adapting the design and control parameters of the future stretches of the tunnel to the results of the stretches already finished, using the monitoring data base. Numerous criteria are given to identify the key parameters, necessary for the PAT procedure. Best practices of excavation management with the help of real time monitoring and control are also provided. Furthermore cost and time evaluation systems are analysed. Finally, contractual aspects related to construction by contract are investigated, for best development and application of models more appropriate for tunnelling-construction contracts. The work will be of interest to practising engineers, designers, consultants and students in mining, underground, tunnelling, transportation and construction engineering, as well as to foundation and geological engineers, urban planners/developers and architects.

Thermoplastic Starch

How a German city became Polish after World War II

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With the stroke of a pen at the Potsdam Conference following the Allied victory in 1945, Breslau, the largest German city east of Berlin, became the Polish city of Wroclaw. Its more than six hundred thousand inhabitants—almost all of them ethnic Germans—were expelled and replaced by Polish settlers from all parts of prewar Poland. *Uprooted* examines the long-term psychological and cultural consequences of forced migration in twentieth-century Europe through the experiences of Wroclaw's Polish inhabitants. In this pioneering work, Gregor Thum tells the story of how the city's new Polish settlers found themselves in a place that was not only unfamiliar to them but outright repellent given Wroclaw's Prussian-German appearance and the enormous scope of wartime destruction. The immediate consequences were an unstable society, an extremely high crime rate, rapid dilapidation of the building stock, and economic stagnation. This changed only after the city's authorities and a new intellectual elite provided Wroclaw with a Polish founding myth and reshaped the city's appearance to fit the postwar legend that it was an age-old Polish city. Thum also shows how the end of the Cold War and Poland's democratization triggered a public debate about Wroclaw's "amputated memory." Rediscovering the German past, Wroclaw's Poles reinvented their city for the second time since World War II. *Uprooted* traces the complex historical process by which Wroclaw's new inhabitants revitalized their city and made it their own.

Treatment Wetlands for Environmental

Pollution Control

The first book devoted to the complex interactions between trace elements, soils, plants, and microorganisms in the rhizosphere, *Trace Elements in the Rhizosphere* brings together the experimental, investigative, and modeling branches of rhizosphere research. Written by an international team of authors, it provides a comprehensive overview of the mechanisms and fate of trace elements in the rhizosphere and the application of this information to phytoremediation technologies and sustainable agriculture and forestry. With ecological and environmental issues moving to the forefront, the focus of rhizosphere research has increasingly shifted to studying the effect of plant-microbial association on the bioavailability, uptake, and transformation of inorganic and organic contaminants in soils. Contaminant-rhizosphere interactions have attracted renewed attention as plants have been proposed for use in the remediation of contaminated soils. *Trace Elements in the Rhizosphere* provides an in-depth look at rhizosphere processes and leads the way to further understanding and developments in this field.

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