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The Internet of Things in the Modern Business Environment
 Design Studies and Intelligence Engineering
 Structural Reliability Analysis and Prediction
 Product Lifecycle Management in the Digital Twin Era
 Robust and Regularized Algorithms for Vehicle Tractive Force Prediction and Mass Estimation
 Handbook of Research on Media Literacy Research and Applications Across Disciplines
 Dynamic Substructures, Volume 4
 Product Lifecycle Management for a Global Market
 Integrating the Packaging and Product Experience in Food and Beverages
 Proceedings of the 8th International Conference on Foundations of Computer-Aided Process Design
 Trends in Development of Accelerated Testing for Automotive and Aerospace Engineering
 Reliability Prediction and Testing Textbook
 Automotive Product Development
 Managing 3D Printing
 27th European Symposium on Computer Aided Process Engineering
 Safety of Computer Control Systems 1992 (SAFECOMP' 92)
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 Uncertainty Management for Robust Industrial Design in Aeronautics
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The Internet of Things in the Modern Business Environment IGI Global
 Handbook of Industrial Organization Volume 4 highlights new advances in the field, with this new volume presenting interesting chapters. Each chapter is written by an international board of authors. Part of the renowned Handbooks in Economics series Chapters are contributed by some of the leading experts in their fields A source, reference and teaching supplement for industrial organizations or industrial economists
Design Studies and Intelligence Engineering CRC Press
 This textbook reviews the methodologies of reliability prediction as currently used in industries such as electronics, automotive, aircraft, aerospace, off-highway, farm machinery, and others. It then discusses why these are not successful; and, presents methods developed by the authors for obtaining accurate information for successful prediction. The approach is founded on approaches that accurately duplicate the real world use of the product. Their approach is based on two fundamental components needed for successful reliability prediction; first, the methodology necessary; and, second, use of accelerated reliability and durability testing as a source of the necessary data. Applicable to all areas of engineering, this textbook details the newest techniques and tools to achieve successful reliability prediction and testing. It demonstrates practical examples of the implementation of the approaches described. This book is a tool for engineers, managers, researchers, in industry, teachers, and students. The reader will learn the importance of the interactions of the influencing factors and the interconnections of safety and human factors in product prediction and testing.
Structural Reliability Analysis and Prediction SAE International
 Dynamics of Coupled Structures, Volume 4: Proceedings of the 37th IMAC, A Conference and Exposition on Structural Dynamics, 2019, the fourth volume of eight from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Coupled Structures, including papers on: Methods for Dynamic Substructures Applications for Dynamic Substructures Interfaces & Substructuring Frequency Based Substructuring Transfer Path Analysis
Product Lifecycle Management in the Digital Twin Era Elsevier
 The industrial internet is a new and upcoming technology that is changing the practices of organizations and corporations everywhere. Through research and application, opportunities can arise from implementing these new systems and devices. The Internet of Things in the Modern Business Environment is an essential reference source for the latest scholarly research on varying aspects of the interworking of smart devices within a business setting and explores the impact of these devices on company operations and models. Featuring extensive coverage on a broad range of topics such as supply chain management, information sharing, and data analytics, this publication is ideally designed for researchers, managers, and students seeking current research on the expansion of technology in commerce.
Robust and Regularized Algorithms for Vehicle Tractive Force Prediction and Mass Estimation Springer
 The latest research innovations and enhanced technologies have altered the discipline of materials science and engineering. As a direct result of these developments, new trends in Materials Science and Engineering (MSE) pedagogy have emerged that require attention. The Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education brings together innovative and current advances in the curriculum design and course content of MSE education programs. Focusing on the application of instructional strategies, pedagogical frameworks, and

career preparation techniques, this book is an essential reference source for academicians, engineering practitioners, researchers, and industry professionals interested in emerging and future trends in MSE training and education.

Handbook of Research on Media Literacy Research and Applications Across Disciplines

MIT Press

This book is about how to develop future automotive products by applying the latest methodologies based on a systems engineering approach and by taking into account many issues facing the auto industry such as meeting government safety, emissions and fuel economy regulations, incorporating advances in new technology applications in structural materials, power trains, vehicle lighting systems, displays and telematics, and satisfying the very demanding customer. It is financially disastrous for any automotive company to create a vehicle that very few people want. To design an automotive product that will be successful in the marketplace requires carefully orchestrated teamwork of experts from many disciplines, substantial amount of resources, and application of proven techniques at the right time during the product development process. Automotive Product Development: A Systems Engineering Implementation is intended for company management personnel and graduate students in engineering, business management and other disciplines associated with the development of automotive and other complex products.

Dynamic Substructures, Volume 4 John Wiley & Sons

Advances in Materials and Pavement Performance Prediction contains the papers presented at the International Conference on Advances in Materials and Pavement Performance Prediction (AM3P, Doha, Qatar, 16- 18 April 2018). There has been an increasing emphasis internationally in the design and construction of sustainable pavement systems. Advances in Materials and Pavement Prediction reflects this development highlighting various approaches to predict pavement performance. The contributions discuss links and interactions between material characterization methods, empirical predictions, mechanistic modeling, and statistically-sound calibration and validation methods. There is also emphasis on comparisons between modeling results and observed performance. The topics of the book include (but are not limited to): • Experimental laboratory material characterization • Field measurements and in situ material characterization • Constitutive modeling and simulation • Innovative pavement materials and interface systems • Non-destructive measurement techniques • Surface characterization, tire-surface interaction, pavement noise • Pavement rehabilitation • Case studies Advances in Materials and Pavement Performance Prediction will be of interest to academics and engineers involved in pavement engineering.

Product Lifecycle Management for a Global Market IOS Press

This book constitutes the refereed proceedings of the 5th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCI 2014, held in Heraklion, Crete, Greece in June 2014, jointly with 13 other thematically conferences. The total of 1476 papers and 220 posters presented at the HCI 2014 conferences were carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The 65 papers included in this volume are organized in topical sections on modeling posture and motion; anthropometry, design and ergonomics; ergonomics and human modeling in work and everyday life environments; advances in healthcare; rehabilitation applications; risk, safety and emergency.

Integrating the Packaging and Product Experience in Food and Beverages Springer Nature

This book gives an update on recent developments in different engineering disciplines such as mechanical, materials, computer and process engineering, focusing on modern engineering design

applications. These disciplines provide the foundation for the design and development of improved structures, materials and processes. The modern design cycle is characterized by an interaction of different disciplines and a strong shift to computer-based approaches where only a few experiments are performed for verification purposes. A major driver for this development is the increased demand for cost reduction, which is also connected to environmental demands. In the transportation industry (e.g., automotive), this is connected to the demand for higher fuel efficiency, which is related to the operational costs and the lower harm for the environment. One way to fulfill such requirements is lighter structures and/or improved processes for energy conversion. Another emerging area is the interaction of classical engineering with the health, medical and environmental sector. The chapters are selected contributions of the Advanced Computational Engineering and Experimenting conference, held in July 2022 in Florence, Italy.

Proceedings of the 8th International Conference on Foundations of Computer-Aided Process Design MDPI

Global economic scenarios are increasing in complexity due to the recent global financial crisis, globalization, the evolution of ICT, and the changing behaviors of consumers. This has made it difficult to predict trends and build strategies within the retail industry. As a result, long-term forecasts and schedules are not possible, and more research is needed to explore today's consumer profile and set the frameworks for future recovery strategies. Predicting Trends and Building Strategies for Consumer Engagement in Retail Environments is a pivotal reference source that provides practical insights into improving the understanding of complex retail environments and consumer shopping behaviors in order to predict trends and develop strategies for retailers in times of economic crisis. While highlighting topics such as consumer engagement, industry models, and market globalization, this publication explores qualitative and quantitative methods of interest and the multidisciplinary approaches revolving around the industry. This book is ideally designed for marketers, managers, practitioners, retail professionals, academicians, researchers, and students seeking current research on relationship marketing, digital marketing, service management, and complexity theories.

Trends in Development of Accelerated Testing for Automotive and Aerospace Engineering Springer

Integrating the Packaging and Product Experience in Food and Beverages: A Road-Map to Consumer Satisfaction focuses on the interrelationship between packaging and the product experience. In both industry and academia there has been a growing interest in investigating approaches that capture consumer responses to products that go beyond traditional sensory and liking measures. These approaches include assessing consumers' emotional responses, obtaining temporal measures of liking, as well as numerous published articles considering the effect of situation and context in the evaluation of food and beverage products. For fast-moving consumer goods (FMCG) products in particular, packaging can be considered as a contributor to consumer satisfaction. Recent cross-modal research illustrated consumers' dissatisfaction or delight with a product can be evoked when there is dissonance between the packaging and the product experience. The book includes an extensive overview of an adapted satisfaction scale that has been tailored for the food and beverage sector and which identifies varying satisfaction response modes such as contentment, pleasure, and delight with a product. This is an important development as it provides insights about products that can be used to market specific categories and brands of foods and beverages. The book demonstrates the value of this approach by bringing together case studies that consider the interrelationships between packaging design, shape, on-pack sensory messages, expectations, and consumer satisfaction with the product. Focuses on the inter-relationship between packaging and the product experience, specifically in the context of the food and beverage sector Presents the expectancy disconfirmation model of satisfaction, which is well developed within the social sciences, to the food and beverage sector Contains case studies demonstrating how these practices can be used in industry to better enhance customer's responses to products Includes an extensive overview of an adapted satisfaction scale that has been tailored for the food and beverage sector and which identifies varying satisfaction response modes such as contentment, pleasure, and delight with a product

Reliability Prediction and Testing Textbook Elsevier

This book is a printed edition of the Special Issue "Microbial Community Modeling: Prediction of Microbial Interactions and Community Dynamics" that was published in Processes

Automotive Product Development Springer Nature

This book constitutes the refereed post-conference proceedings of the 16th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2019, held in Moscow, Russia, in July 2019. The 38 revised full papers presented were carefully reviewed and selected from 63 submissions. The papers are organized in the following topical sections: 3D modelling and data structures; PLM maturity and industry 4.0; ontologies and semantics; PLM and conceptual design; knowledge and change management; IoT and PLM; integrating manufacturing realities; and integration of in-service and operation.

Managing 3D Printing Springer Nature

SAFECOMP '92 advances the state-of-the-art, reviews experiences of the past years, considers the guidance now available and identifies the skills, methods, tools and techniques required for the safety of computer control systems.

27th European Symposium on Computer Aided Process Engineering Frontiers Media SA

This book constitutes the refereed proceedings of the 10th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2014, held in Rhodes, Greece, in September 2014. The 33 revised full papers and 29 short papers presented were carefully reviewed and selected from numerous submissions. They are organized in the following topical sections: learning-ensemble learning; social media and mobile applications of AI; hybrid-changing environments; agent (AGE); classification pattern recognition; genetic algorithms; image and video processing; feature extraction; environmental AI; simulations and fuzzy modeling; and data mining forecasting.

Safety of Computer Control Systems 1992 (SAFECOMP' 92) John Wiley & Sons

The digital age has made it easy for anyone, even those with limited technology proficiency, to create some form of media. With so many different types of media and the sheer volume of information coming from a wide array of sources, media literacy has become an essential skill that can be very difficult to learn and teach. The Handbook of Research on Media Literacy Research and Applications Across Disciplines aims to present cross-disciplinary examinations of media literacy, specifically investigating its challenges and solutions and its implications for P-20 education. An assemblage of innovative findings centered on national and international perspectives, with topics including critical thinking and decision-making processes, smart consumerism, recognizing point-of-view, media influence, responsible media creation, cyber threats, media literacy instruction, among others, this book is ideally designed for educators, researchers, activists, instructional designers, media specialists, and professionals.

Handbook of Research on New Product Development Springer Nature

The 5th IEEE International Conference on Applied System Innovation 2019 (IEEE ICASI 2019, <https://2019.icas-conf.net/>), which was held in Fukuoka, Japan, on 11–15 April, 2019, provided a unified communication platform for a wide range of topics. This Special Issue entitled "Selected Papers from IEEE ICASI 2019" collected nine excellent papers presented on the applied sciences topic during the conference. Mechanical engineering and design innovations are academic and practical engineering fields that involve systematic technological materialization through scientific principles and engineering designs. Technological innovation by mechanical engineering includes information technology (IT)-based intelligent mechanical systems, mechanics and design innovations, and applied materials in nanoscience and nanotechnology. These new technologies that implant intelligence in machine systems represent an interdisciplinary area that combines conventional mechanical technology and new IT. The main goal of this Special Issue is to provide new scientific knowledge relevant to IT-based intelligent mechanical systems, mechanics and design innovations, and applied materials in nanoscience and nanotechnology.

Digital Human Modeling. Applications in Health, Safety, Ergonomics and Risk Management Springer

Structural Reliability Analysis and Prediction, Third Edition is a textbook which addresses the important issue of predicting the safety of structures at the design stage and also the safety of existing, perhaps deteriorating structures. Attention is focused on the development and definition of limit states such as serviceability and ultimate strength, the definition of failure and the various models which might be used to describe strength and loading. This book emphasises concepts and applications, built up from basic principles and avoids undue mathematical rigour. It presents an accessible and unified account of the theory and techniques for the analysis of the reliability of engineering structures using probability theory. This new edition has been updated to cover new developments and applications and a new chapter is included which covers structural optimization in the context of reliability analysis. New examples and end of chapter problems are also now included. Predicting Trends and Building Strategies for Consumer Engagement in Retail Environments MDPI This volume comprises select proceedings of the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The papers in this volume discuss simulations based on techniques such as finite element method (FEM) as well as soft computing based techniques such as artificial neural network (ANN), their optimization and the development and design of mechanical products. This volume will be of interest to researchers, policy makers, and practicing engineers alike.

Uncertainty Management for Robust Industrial Design in Aeronautics Elsevier

Software Reliability reviews some fundamental issues of software reliability as well as the techniques, models, and metrics used to predict the reliability of software. Topics covered include fault avoidance, fault removal, and fault tolerance, along with statistical methods for the objective assessment of predictive accuracy. Development cost models and life-cycle cost models are also discussed. This book is divided into eight sections and begins with a chapter on adaptive modeling used to predict software reliability, followed by a discussion on failure rate in software reliability growth models. The next chapter deals with methods for predicting and estimating software reliability, with emphasis on their strengths and weaknesses. The reader is methodically introduced to formal inspection in software development; the effects of product design, program structure, development methods, and the environments of product testing and use on product reliability; and types of software metrics in relation to reliability. The remaining chapters explore the ways in which software engineers have sought to achieve software reliability through testing; problems and standards in software reliability data collection; and applications of time series models to software reliability analysis. This monograph will be of interest to software engineers and designers.

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