



Advanced Simulation In Design Researchgate

**Mykhailo Ilchenko, Leonid
Uryvsky, Larysa Globa**



Advanced Simulation In Design Researchgate:

Proceedings of the International Conference on Advanced Research in Electronics and Communication Systems (ICARECS 2025) A. Shirly Edward, Rahul Krishnan, P. Nagarajan, M I Anju, Muzammil Bin Jusoh, 2025-06-29 This open access volume presents the select proceedings of International Conference on Advanced Research in Electronics and Communication Systems ICARECS 2025 Various topics covered in this volume are Artificial Intelligence 5G Technology and Implementations MIMO and Multi antenna communications Internet of Things Devices Cognitive and Software Defined Radio Biomedical Signal Processing Signal Processing for Communications VLSI Signal Processing Radar and Sonar Signal Processing Speech Processing and Recognition Cryptography Security and Privacy algorithms AI powered Smart Electronics 6G and Beyond Emerging Technologies and Applications Cloud Based Networks Low Power Wide Area Networks LPWAN for IoT Machine Learning in Communication Systems Blockchain for Secure and Transparent Communication Artificial Intelligence for Network Optimization etc

Advanced Analytic and Control Techniques for Thermal Systems with Heat Exchangers Libor Pekar, 2020-07-10 Advanced Analytic Control Techniques for Thermal Systems with Heat Exchangers presents the latest research on sophisticated analytic and control techniques specific for Heat Exchangers HXs and heat Exchanger Networks HXNs such as Stability Analysis Efficiency of HXs Fouling Effect Delay Phenomenon Robust Control Algebraic Control Geometric Control Optimal Control Fuzzy Control and Artificial Intelligence techniques Editor Libor Pekar and his team of global expert contributors combine their knowledge and experience of investigated and applied systems and processes in this thorough review of the most advanced networks analyzing their dynamics efficiency transient features physical properties performance feasibility flexibility and controllability The structural and dynamic analyses and control approaches of HXNs as well as energy efficient manipulation techniques are discussed in addition to the design of the control systems through the full life cycle This equips the reader with an understanding of the relevant theory in a variety of settings and scenarios and the confidence to apply that knowledge to solve problems in an academic or professional setting Graduate students and early mid career professionals require a robust understanding of how to suitably design thermal systems with HXs and HXNs to achieve required performance levels which this book offers in one consolidated reference All examples and solved problems included have been tried and tested and these combined with the research driven theory provides professionals researchers and students with the most recent techniques to maximize the energy efficiency and sustainability of existing and new thermal power systems Analyses several advanced techniques the theoretical background of these techniques and includes models examples and results throughout Focusses on advanced analytic and control techniques which have been investigated or applied to thermal systems with HXs and HXNs Includes practical applications and advanced ideas from leading experts in the field as well as case studies and tested problems and solutions

Computer-Integrated Engineering Design and Manufacture Wilson R Nyemba, 2025-10-21 This book presents

advanced concepts of computer aided design and computer aided manufacture through modelling and computer numerical control coupled with the simulation of production systems It dwells on the subtle and key features such as the applications and effective use of dynamic blocks in modelling subtractive and additive layer manufacturing flexible manufacturing systems and automation and robotics The text Discusses the principles of computer aided design in a comprehensive manner and applications of the AutoCAD interface programming language Covers aspects of product development and design together with accompanying principles of design for manufacture and assembly Explains the integrated approach to design and manufacture enhanced by modelling simulation and analysis software with capabilities for electronic transfer and interchange between the software packages Presents process planning and part programming with MasterCAM generating toolpaths and selecting machine tools for subtractive manufacturing and step by step worked examples to enhance the understanding of principles and concepts of engineering design and manufacture Explores sequential control and logical sequencing configuration of industrial robots and challenges in programming robots The integrated nature of this book and the examples therein are intended for senior undergraduates graduate students academic researchers and practising engineers in various fields of engineering such as but not limited to aeronautical civil electrical industrial manufacturing mechanical mechatronics and production engineering

Practical RF Amplifier Design and Performance Optimization with SPICE and Load- and Source-pull Techniques Amal Banerjee,2021-03-01 This book explains and demonstrates with an exhaustive set of design examples how common types of radio frequency RF amplifiers classes A B AB C D E F G and H can be designed and then have their performance characteristics evaluated and optimized with SPICE The author demonstrates the transient analysis features of SPICE along with industry standard load and source pull techniques to simulate the steady state long term time domain behavior of any test RF amplifier Describes methods for designing and evaluating optimizing the performance characteristics of an RF amplifier that circumvent the issues involved with existing traditional methods and don t require expensive high end software tools Includes C language executables for each RF amplifier type eliminating errors that might creep in while computing passive component capacitor inductor resistor values for a given RF amplifier type Demonstrates industry standard load and source pull schemes that can be included easily in text SPICE netlists allowing accurate calculation of impedance matching and impedance values at the input and output ports of the test RF amplifier eliminating messy error prone S parameter based calculations

Benchmark Experiments, Development and Needs in Support of Advanced Reactor Design Mark David DeHart,John Darrell Bess,Michael Fleming,Germina Ilas,2023-08-01 *AI-Aided IoT Technologies and Applications for Smart Business and Production* Alex Khang,Anuradha Misra,Shashi Kant Gupta,Vrushank Shah,2023-12-01 This book covers the need for Internet of Things IoT technologies and artificial intelligence AI aided IoT solutions for business and production It shows how IoT based technology uses algorithms and AI models to bring out the desired results AI Aided IoT Technologies and Applications for Smart

Business and Production shows how a variety of IoT technologies can be used toward integrating data fabric solutions and how intelligent applications can be used to greater effect in business and production operations The book also covers the integration of IoT data driven financial technology fintech applications to fulfill the goals of trusted AI aided IoT solutions Next the authors show how IoT based technology uses algorithms and AI models to bring out the desired results across various industries including smart cities buildings hospitals hotels homes factories agriculture transportation and more The last part focuses on AI aided IoT techniques data analytics and visualization tools This book targets a mixed audience of specialists analysts engineers scholars researchers academics and professionals It will be useful to engineering officers IoT and AI engineers engineering and industrial management students and research scholars looking for new ideas methodologies technologies models frameworks theories and practices to resolve the challenging issues associated with leveraging IoT technologies data driven analytics AI aided models IoT cybersecurity 5G sensors and augmented and virtual reality techniques for developing smart systems in the era of Industrial Revolution 4 0

Advances in Design, Simulation and Manufacturing VIII Raul D. Campilho,Vitalii Ivanov,Gustavo Filipe Pinto,Andresa Baptista,Francisco J. G. Silva,2025-06-12 This book reports on advances in mechanical engineering with a special emphasis on innovative design approaches constructions and working processes and on intelligent devices It discusses physical aspects during pressing and vibrational processing and findings relating to static stiffness and wear resistance Further chapters report on the modeling and simulation of mechanical systems using mathematical modeling numerical simulation and experimental studies This book also describes the use of LabVIEW an infrared camera and acoustic technology for the control and diagnostic of air leaks and radial runout of gear wheels It discusses topics concerning the efficiency of systems and processes reporting on new strategies for improving the design and operation of hydraulic machine rotors screw and roller presses and homogenizers among others Based on the 8th International Conference on Design Simulation Manufacturing The Innovation Exchange DSMIE 2025 held on June 17 20 2025 in Porto Portugal this second volume of a 4 volume set provides academics and professionals with extensive information on technologies trends challenges and practice oriented experience in all the above mentioned

Advanced Field-Effect Transistors Dharmendra Singh Yadav,Shiromani Balmukund Rahi,Sukeshni Turkey,2023-12-22 Advanced Field Effect Transistors Theory and Applications offers a fresh perspective on the design and analysis of advanced field effect transistor FET devices and their applications The text emphasizes both fundamental and new paradigms that are essential for upcoming advancement in the field of transistors beyond complementary metal oxide semiconductors CMOS This book uses lucid intuitive language to gradually increase the comprehension of readers about the key concepts of FETs including their theory and applications In order to improve readers learning opportunities Advanced Field Effect Transistors Theory and Applications presents a wide range of crucial topics Design and challenges in tunneling FETs Various modeling approaches for FETs Study of organic thin film transistors Biosensing applications of FETs

Implementation of memory and logic gates with FETs The advent of low power semiconductor devices and related implications for upcoming technology nodes provide valuable insight into low power devices and their applicability in wireless biosensing and circuit aspects As a result researchers are constantly looking for new semiconductor devices to meet consumer demand This book gives more details about all aspects of the low power technology including ongoing and prospective circumstances with fundamentals of FET devices as well as sophisticated low power applications

Advanced Smart Information and Communication Technology and Systems Mykhailo Ilchenko, Leonid Uryvsky, Larysa Globa, 2025-07-28 This book highlights the most important research areas in Information and Communication Technologies and their impact on digital society and environment sustainable development namely the research in fields of Information and Communication Technologies artificial intelligence in ICT lunar missions maintenance security of data and services smart robotic systems implementation in the digital environment and mathematical modeling for practical and research tasks in communication and data processing fields provided by various groups of researchers from Germany and Ukraine in cooperation with scientists from different countries The presented studies contain a discussion on the use of multi cloud integration approaches in particular based on methods of deep learning practical implementation of the Internet of Things IoT the modern study of V2V Communication and research in fields of mathematical modeling in applied problems The book focuses on the basics of information and analytical activities in the digital global space to providing broadband Internet access without decreasing the quality of experience QoE level improving services provision and system architecture with improving security The study of modern communication and information technologies contains original works dealing with many aspects of their improvement and use for research that shows some effective technological solutions that can be used for the implementation of novel cloud infrastructure and radio electronics systems These results can be used in the implementation of novel systems and to promote the exchange of information in e societies Given its scope the book offers a valuable resource for scientists lecturers specialists working at enterprises and graduate and undergraduate students who engage with problems in Information and Communication Technologies as well as aspects of society and environment sustainable development

Advanced Knitting Technology Subhankar Maity, Sohel Rana, Pintu Pandit, Kunal Singha, 2021-08-22 Advanced Knitting Technology provides complete coverage of the latest innovations and developments in knitting technology including emerging methods as well as the latest best practice for classical processes Many technologies can be used for the production of cloth such as weaving knitting nonwoven and braiding Knitting methods are being selected for a growing range of applications due to the spectacular properties of knitted fabric such as softer tactile quality higher stretchability bulkiness and functional properties that compare favorably with other woven fabrics Beyond the well known apparel applications specially designed knitted structures are uniquely suitable for high performance applications like reinforcement for composites medical implants and geotextiles This book presents recent advances in knitting technology

including structures properties and applications of knitted fabrics in modern apparel activewear composites medical textiles and geotextiles With reference to the latest industry practice testing quality and process control methods for knitting technologies are discussed Advanced Knitting Technology covers recent advances in knitting technology properties and performance of knitted structures their applications in apparel and technical fields Provides detailed and practical instructions for the sustainable production of knitted textiles including sustainable chemical processing natural dyeing processes and sustainability analysis methods Draws on the latest research to discuss the future of knitted apparels and high tech applications of knitted structures as technical textiles Explores the latest applications of AI and machine learning to the knitting process

Applications of Advanced Electromagnetics Guennadi A. Kouzaev, 2024-12-31 This book addresses microwave researchers engineers and Master s and Ph D students It follows the idea of the first Edition to educate the readers on fundamental electromagnetics and show how this brilliant theory is used in developing modern multi physics microwave and terahertz hardware The first three chapters discuss the main ideas and methods of electromagnetism explained in a manner that is clear for readers who have had some initial knowledge of electromagnetism Chapters 4 and 5 are on transmission lines The first text is on the integrated ones for digital applications which have been working since DC up to several tens or hundreds of gigahertz The next chapter is on the waveguides for terahertz frequencies In this book the space modulated signals application compared to the 1st Edition is considered using the example of a novel predicate variable logic processor designed and verified in an FPGA environment Chapter 6 This idea born initially in microwaves allowed an eight logic style re configurable on the fly processor Chapters 7 9 discuss microwaves in heating liquids and the initiation of rapid chemical reactions in novel miniature quasi TEM wave reactors Chapter 10 involves results on trapping and transporting ultra cold matter using combined techniques The new results described here are on numerical simulation of trapping of ultra cold atoms in random 3D optical potentials using the Anderson effect In conclusion the author hopes this book will strengthen the young generation s interest in microwave field theory He believes that advanced electromagnetism combined with other physics branches will play a crucial role in developing new improved components and systems and this book is a stepping stone example in that journey

Technology and Innovation in Learning, Teaching and Education Arsénio Reis, João Barroso, Paulo Martins, Athanassios Jimoyiannis, Ray Yueh-Min Huang, Roberto Henriques, 2023-01-01 This book constitutes the proceedings of the Third International Conference on Technology and Innovation in Learning Teaching and Education TECH EDU 2022 was held in Lisbon Portugal in August September 2022 The 21 full papers and 18 short paper presented in this volume were carefully reviewed and selected from 80 submissions The papers are organized in the following topical sections Emergent technologies in education Online learning and blended learning Computer science education and STEM Digital tools and STEM learning ICT and critical thinking in higher education Digital transformation in higher education Artificial Intelligence in Education

Modeling and Optimization in Manufacturing Catalin I. Pruncu, Jun

Jiang,2021-07-19 Discover the state of the art in multiscale modeling and optimization in manufacturing from two leading voices in the field Modeling and Optimization in Manufacturing delivers a comprehensive approach to various manufacturing processes and shows readers how multiscale modeling and optimization processes help improve upon them The book elaborates on the foundations and applications of computational modeling and optimization processes as well as recent developments in the field It offers discussions of manufacturing processes including forming machining casting joining coating and additive manufacturing and how computer simulations have influenced their development Examples for each category of manufacturing are provided in the text and industrial applications are described for the reader The distinguished authors also provide an insightful perspective on likely future trends and developments in manufacturing modeling and optimization including the use of large materials databases and machine learning Readers will also benefit from the inclusion of A thorough introduction to the origins of manufacturing the history of traditional and advanced manufacturing and recent progress in manufacturing An exploration of advanced manufacturing and the environmental impact and significance of manufacturing Practical discussions of the economic importance of advanced manufacturing An examination of the sustainability of advanced manufacturing and developing and future trends in manufacturing Perfect for materials scientists mechanical engineers and process engineers Modeling and Optimization in Manufacturing will also earn a place in the libraries of engineering scientists in industries seeking a one stop reference on multiscale modeling and optimization in manufacturing

Handbook of Model-Based Systems Engineering Azad M. Madni,Norman Augustine,Michael Sievers,2023-07-25 This handbook brings together diverse domains and technical competences of Model Based Systems Engineering MBSE into a single comprehensive publication It is intended for researchers practitioners and students educators who require a wide ranging and authoritative reference on MBSE with a multidisciplinary global perspective It is also meant for those who want to develop a sound understanding of the practice of systems engineering and MBSE and or who wish to teach both introductory and advanced graduate courses in systems engineering It is specifically focused on individuals who want to understand what MBSE is the deficiencies in current practice that MBSE overcomes where and how it has been successfully applied its benefits and payoffs and how it is being deployed in different industries and across multiple applications MBSE engineering practitioners and educators with expertise in different domains have contributed chapters that address various uses of MBSE and related technologies such as simulation and digital twin in the systems lifecycle The introductory chapter reviews the current state of practice discusses the genesis of MBSE and makes the business case Subsequent chapters present the role of ontologies and meta models in capturing system interdependencies reasoning about system behavior with design and operational constraints the use of formal modeling in system model verification and validation ontology enabled integration of systems and system of systems digital twin enabled model based testing system model design synthesis model based tradespace exploration design for reuse human system integration and

role of simulation and Internet of Things IoT within MBSE Modeling and Simulation in Engineering Sciences Noreen Sher Akbar, Anwar Beg, 2016-08-31 This book features state of the art contributions in mathematical experimental and numerical simulations in engineering sciences The contributions in this book which comprise twelve chapters are organized in six sections spanning mechanical aerospace electrical electronic computer materials geotechnical and chemical engineering Topics include metal micro forming compressible reactive flows radio frequency circuits barrier infrared detectors fiber Bragg and long period fiber gratings semiconductor modelling many core architecture computers laser processing of materials alloy phase decomposition nanofluids geo materials and rheo kinetics Contributors are from Europe China Mexico Malaysia and Iran The chapters feature many sophisticated approaches including Monte Carlo simulation FLUENT and ABAQUS computational modelling discrete element modelling and partitioned frequency time methods The book will be of interest to researchers and also consultants engaged in many areas of engineering simulation **Proceedings of the 2nd International Conference on Advanced Civil Engineering and Smart Structures** TianQiao Liu, Enlong Liu, 2024-03-13 This book presents the proceedings of the 2nd International Conference on Advanced Civil Engineering and Smart Structures ACES2023 held on November 25 26 2023 in Chengdu China ACES2023 successfully brought together innovative academics and industrial experts from the field of civil engineering and smart structures to a common forum The conference featured a special schedule comprising thought provoking keynote speeches thematic invited speeches sessions and panel discussions to foster collaboration and knowledge exchange The conference also offered participants a chance to immerse themselves in Chengdu's rich culture and heritage ensuring a memorable and rewarding experience for all attendees This book encapsulates the wealth of knowledge and insights shared during the conference making it an invaluable resource for researchers professionals and students in the field *The Nature of Business Transformation* Richard Kelly, 2022-03-17 This book is a practical guide for business professionals to develop and improve business intelligence and collective decision making within their organisation It proposes a progressive reconfiguration of the traditional business operating system using a nature inspired framework called swarm facilitation that enables and facilitates collective decision making Organisations have followed the same rigid formula of problem solving and decision making for over 100 years It is dominated by centralised governance and pyramid decision making Such an approach is no longer fit for purpose in an environment of employee disengagement artificial intelligence AI superintelligence and Covid 19 fallout By the end of this book readers will be able to solve organisational problems and challenges collectively using swarm intelligence upgrade and future proof business operating systems to reflect a more collective decision making approach fit for the new connected economy and Industry 4.0 embrace mindset quotients that support people working in a more networked self organising and collective environment The book is important reading for leaders and managers who are focused on building organisational capital and engagement and gaining value from the emerging technology by evolving their business operating system into a digital

ecosystem as part of an ongoing digital transformation strategy. It will also appeal to experts working in the field of organisational change and development both within the organisation and as consultants.

Underground Parking Ventilation Systems Charles Nehme, Underground parking facilities are an indispensable part of modern urban infrastructure quietly supporting the rhythm of daily life in cities worldwide. From bustling shopping centers and residential complexes to vital transport hubs, these subterranean spaces efficiently manage vehicle storage, alleviating surface congestion and optimizing land use. Yet beneath their seemingly simple function lies a complex challenge: ensuring a safe, healthy, and comfortable environment for occupants and their vehicles. This is where underground parking ventilation systems become not just an amenity but a critical necessity. The enclosed nature of underground car parks presents unique environmental hurdles. Vehicle exhaust fumes containing harmful pollutants like carbon monoxide and nitrogen oxides can quickly accumulate to dangerous levels if not properly managed. Beyond air quality, the threat of fire poses a significant risk. Smoke and heat can rapidly spread, hindering evacuation, impeding firefighting efforts, and causing extensive damage. Effective ventilation, therefore, is paramount, serving as the lungs of these hidden environments, constantly exchanging stale, contaminated air for fresh, clean air and crucially managing smoke in emergency situations. This book, *Underground Parking Ventilation Systems: Design, Operation, and Safety*, aims to be a definitive guide for anyone involved in the conception, design, construction, or management of these vital systems. We delve into the fundamental principles governing airflow, the characteristics of airborne contaminants, and the intricate science behind smoke control. From the foundational regulatory frameworks and the myriad types of ventilation systems, from traditional ducted setups to modern impulse fan technologies, to advanced design methodologies like Computational Fluid Dynamics (CFD), we cover the entire spectrum. Our goal is to equip readers with the knowledge and tools necessary to create and maintain ventilation systems that are not only compliant with stringent safety standards but also energy efficient and sustainable. We explore the latest advancements in sensor technology, demand-controlled ventilation, and the exciting integration with smart building management systems. Practical insights are offered through detailed design calculations, discussions on critical components, and best practices for installation, commissioning, and ongoing maintenance. Whether you're an architect sketching initial concepts, a mechanical engineer refining detailed designs, a facility manager overseeing daily operations, or a student aspiring to specialize in building services, this book provides a comprehensive resource. It's a testament to the fact that while often unseen, the effectiveness of an underground parking ventilation system directly impacts the safety, health, and comfort of countless individuals. We hope this guide serves as a valuable companion in your efforts to design, implement, and maintain the vital, silent guardians of our subterranean parking spaces.

Soft Target Protection Ladislav Hofreiter, Viacheslav Berezutskyi, Lucia Figuli, Zuzana Zvaková, 2020-03-03. This proceedings volume includes articles presented during the Advanced Research Workshop on Soft Target Protection. The book presents important topics related to the protection of vulnerable objects and spaces called Soft

Targets The chapters published in this book are thematically assigned to the blocks as follows Theoretical aspect of soft target protection Blast resistance of soft targets Counter terrorism Technical and technological solutions for soft target protection Scheme and organizational measures Blast protection and Forces for soft target protection In this book the reader will find a wealth of information about the theoretical background for designing protection of soft targets as well as the specifics of protecting objects in armed conflict areas New methods and procedures applicable to the soft target protection are described

Fundamentals of Electric Aircraft Pascal Thalin, Ravi Rajamani, Jean-Charles Mare, Sven Taubert, 2018-12-18 Fundamentals of Electric Aircraft was developed to explain what the electric aircraft stands for by offering an objective view of what can be expected from the giant strides in innovative architectures and technologies enabling aircraft electrification Through tangible case studies a deep insight is provided into this paradigm shift cutting across various aircraft segments from General Aviation to Large Aircraft Addressing design constraints and timelines foreseen to reach acceptable performance and maturity levels Fundamentals of Electric Aircraft puts forward a general view of the progress made to date and what to expect in the years to come Drawing from the expertise of four industry veterans Pascal Thalin editor Ravi Rajamani Jean Charles Mare and Sven Taubert contributors it addresses futuristic approaches but does not depart too far from the operational down to earth realities of everyday business Fundamentals of Electric Aircraft also offers analyses on how performance enhancements and fuel burn savings may bring more value for money as long as new electric technologies deliver on their promises

Reviewing **Advanced Simulation In Design Researchgate**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Advanced Simulation In Design Researchgate**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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