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EQ8 Designing Quilts *AI and Learning Systems* **New Trends in Medical and Service Robots** **Gaseous Carbon Waste Streams Utilization** *Carbon Dioxide Utilization to Sustainable Energy and Fuels* **Learning and Collaboration Technologies. Novel Learning Ecosystems** *April 2022 - Surplus Record Machinery & Equipment Directory* **Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation** *Handbook of Photovoltaic Silicon* **February 2022 - Surplus Record Machinery & Equipment Directory** **Smart Trends in Computing and Communications** **EQ8 Lessons for Beginners** **Electric and Magnetic Fields** **Innovative Design and Development Practices in Aerospace and Automotive Engineering** *EQ8 Block Library Ludic, Co-design and Tools Supporting Smart Learning Ecosystems and Smart Education* **Radiation Dose from Multidetector CT** **The NASTRAN Theoretical Manual** *January 2022 - Surplus Record Machinery & Equipment Directory* *Good Agricultural Practices for Greenhouse Vegetable Crops* **Reliability and Statistics in Transportation and Communication** **Unsteady Aerodynamics, Aeroacoustics and Aeroelasticity of Turbomachines** *Applied Iterative Methods* **The Use of Saline Waters for Crop Production** **The Human Face of Big Data** *The NASTRAN Theoretical Manual* **VDI Heat Atlas** *Sintering of Ceramics* **Fuel Cells and Hydrogen Production** **Fundamentals of Solid State Engineering** **Soil Physics and Rice** **Monitor Unit Calculations for External Photon and Electron Beams** **The Interacting Boson Model** **Proceedings of the 2000 IEEE Sensor Array and Multichannel Signal Processing Workshop** *Field-cycling NMR Relaxometry* **Applications of X-ray Computed Tomography in the Geosciences** **Microwave Devices and Circuits** **Introduction to Nuclear Engineering** *Diffusion and Adoption of Information Technology* *Spreading Resistance Symposium*

VDI Heat Atlas Aug 08 2020 For more than 50 years, the Springer VDI Heat Atlas has been an indispensable working means for engineers dealing with questions of heat transfer. Featuring 50% more content, this new edition covers most fields of heat transfer in industrial and engineering applications. It presents the interrelationships between basic scientific methods, experimental techniques, model-based analysis and their transfer to technical applications.

The Use of Saline Waters for Crop Production Nov 10 2020

EQ8 Lessons for Beginners Nov 22 2021 This step-by-step lesson book is the best starter book for learning EQ8 software. The lessons are easy to follow and cover the basics of each of the three main worktables of EQ8. You will design quilts, draw blocks, import fabric scans, print patterns and calculate yardage estimates. Even if you've owned earlier versions of EQ, this book will introduce new features, while refreshing and energizing your approach to quilt design. In this book, you will:- Get an overview of the workspace- Use and build your own libraries- Design basic quilts using pre-set layouts- Design custom quilts with blocks of different sizes- Create quilt labels- Use photos to design t-shirt quilts- Straighten, scale and crop fabric photos from a scanner or camera- Edit blocks from the library to create new blocks- Draw new blocks, pieced or applique, from scratch- Create blocks using Serendipity- Print as templates, foundation patterns or rotary cutting charts

Fuel Cells and Hydrogen Production Jun 05 2020 The expected end of the "oil age" will lead to increasing focus and reliance on alternative energy conversion devices, among which fuel cells have the potential to play an important role. Not only can phosphoric acid and solid oxide fuel cells already efficiently convert today's fossil fuels, including methane, into electricity, but other types of fuel cells, such as polymer electrolyte membrane fuel cells, have the potential to become the cornerstones of a possible future hydrogen economy. This handbook offers concise yet comprehensive coverage of the current state of fuel cell research and identifies key areas for future investigation. Internationally renowned specialists provide authoritative introductions to a wide variety of fuel cell types and hydrogen production technologies, and discuss materials and components for these systems. Sustainability and marketing considerations are also covered, including comparisons of fuel cells with alternative technologies.

Gaseous Carbon Waste Streams Utilization Jul 31 2022 In the quest to mitigate the buildup of greenhouse gases in Earth's atmosphere, researchers and policymakers have increasingly turned their attention to techniques for capturing greenhouse gases such as carbon dioxide and methane, either from the locations where they are emitted or directly from the atmosphere. Once captured, these gases can be stored or put to use. While both carbon storage and carbon utilization have costs, utilization offers the opportunity to recover some of the cost and even generate economic value. While current carbon utilization projects operate at a relatively small scale, some estimates suggest the market for waste carbon-derived products could grow to hundreds of billions of dollars within a few decades, utilizing several thousand teragrams of waste carbon gases per year. **Gaseous Carbon Waste Streams Utilization: Status and Research Needs** assesses research and development needs relevant to understanding and improving the commercial viability of waste carbon utilization technologies and defines a research agenda to address key challenges. The report is intended to help inform decision making surrounding the development and deployment of waste carbon utilization technologies under a variety of circumstances, whether motivated by a goal to improve processes for making carbon-based products, to generate revenue, or to achieve environmental goals.

The NASTRAN Theoretical Manual May 17 2021

Sintering of Ceramics Jul 07 2020 The chapters covered in this book include emerging new techniques on sintering. Major experts in this field contributed to this book and presented their research. Topics covered in this publication include Spark plasma sintering, Magnetic Pulsed compaction, Low Temperature Co-fired Ceramic technology for the preparation of 3-dimesinal circuits, Microwave sintering of thermistor ceramics, Synthesis of Bio-compatible ceramics, Sintering of Rare Earth Doped Bismuth Titanate Ceramics prepared by Soft Combustion, nanostructured ceramics, alternative solid-state reaction routes yielding densified bulk ceramics and nanopowders, Sintering of intermetallic superconductors such as MgB₂, impurity doping in luminescence phosphors synthesized using soft techniques, etc. Other advanced sintering techniques such as radiation thermal sintering for the manufacture of thin film solid oxide fuel cells are also described.

Fundamentals of Solid State Engineering May 05 2020 Provides a multidisciplinary introduction to quantum mechanics, solid state physics, advanced devices, and fabrication Covers wide range of topics in the same style and in the same notation Most up to date developments in semiconductor physics and nano-engineering Mathematical derivations are carried through in detail with emphasis on clarity Timely application areas such as biophotonics , bioelectronics

January 2022 - Surplus Record Machinery & Equipment Directory Apr 15 2021 SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 95,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. January 2022 issue. Vol. 99, No. 1

Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation Mar 27 2022 This two-volume set of IFIP AICT 617 and 618 constitutes the refereed proceedings of the IFIP WG 8.6 International Working Conference "Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation" on Transfer and Diffusion of IT, TDIT 2020, held in Tiruchirappalli, India, in December 2020. The 86 revised full papers and 36 short papers presented were carefully reviewed and selected from 224 submissions. The papers focus on the re-imagination of diffusion and adoption of emerging technologies. They are organized in the following parts: Part I: artificial intelligence and autonomous systems; big data and analytics; blockchain; diffusion and adoption technology; emerging technologies in e-Governance; emerging technologies in consumer decision making and choice; fin-tech applications; healthcare information technology; and Internet of Things Part II: diffusion of information technology and disaster management; adoption of mobile and platform-based applications; smart cities and digital government; social media; and diffusion of information technology and systems

The Interacting Boson Model Jan 31 2020 This book gives an account of the properties of the interacting boson model.

Handbook of Photovoltaic Silicon Feb 23 2022 "Updated content will continue to be published as "Living Reference Works"--Publisher.

Introduction to Nuclear Engineering Aug 27 2019 The text is designed for junior and senior level Nuclear Engineering students. The third edition of this highly respected text offers the most current and complete introduction to nuclear engineering available. Introduction to Nuclear Engineering has been thoroughly updated with new information on French, Russian, and Japanese nuclear reactors. All units have been revised to reflect current standards. In addition to the numerous end-of-chapter problems, computer exercises have been added.

Diffusion and Adoption of Information Technology Jul 27 2019 It is well known that the introduction of a new technology in one organization not always produces the intended benefits (Levine, 1994). In many cases, either the receivers do not reach the intended level of use or simply the technology is rejected because it does not match with the expectations (true or false) and the accepted psychological effort to use it. The case of formal methods is a paradigmatic example of continual failures. The published cases with problems or failures only constitute the visible part of a large iceberg of adoption cases. It is difficult to get companies to openly express the problems they had; however, from the experience of the author, failure cases are very common and they include any type of company. Many reasons to explain the failures (and in some cases the successes) could be postulated; however, the experiences are not structured enough and it is difficult to extract from them useful guidelines for avoiding future problems. Generally speaking, there is a trend to find the root of the problems in the technology itself and in its adequacy with the pre-existent technological context. Technocratic technology transfer models describe the problems in terms of these aspects. Although it is true that those factors limit the probability of success, there is another source of explanations linked to the individuals and working teams and how they perceive the technology.

The Human Face of Big Data Oct 10 2020 The authors invited more than 100 journalists worldwide to use photographs, charts and essays to explore the world of big data and its growing influence on our lives and society.

Applications of X-ray Computed Tomography in the Geosciences Oct 29 2019 X-ray computed tomography (CT) is a technique that allows non-destructive imaging and quantification of internal features of objects. X-ray CT reveals differences in density and atomic composition and can therefore be used for the study of porosity, the relative distribution of contrasting solid phases and the penetration of injected solutions. In this book, various applications of X-ray CT in the geosciences are illustrated by papers covering a wide range of disciplines, including petrology, soil science, petroleum geology, geomechanics and sedimentology.

Spreading Resistance Symposium Jun 25 2019

Soil Physics and Rice Apr 03 2020

Innovative Design and Development Practices in Aerospace and Automotive Engineering Sep 20 2021 The book presents the best articles presented by researchers, academicians and industrial experts in the International Conference on "Innovative Design and Development Practices in Aerospace and Automotive Engineering (I-DAD 2016)". The book discusses new concept designs, analysis and manufacturing technologies, where more swing is for improved performance through specific and/or multifunctional linguistic design aspects to downsize the system, improve weight to strength ratio, fuel efficiency, better operational capability at room and elevated temperatures, reduced wear and tear, NVH aspects while balancing the challenges of beyond Euro IV/Barat Stage IV emission norms, Greenhouse effects and recyclable materials. The innovative methods discussed in the book will serve as a reference material for educational and research organizations, as well as industry, to take up challenging projects of mutual interest.

Learning and Collaboration Technologies. Novel Learning Ecosystems May 29 2022 The two-volume set LNCS 10295 and 10296 constitute the refereed proceedings of the 4th International Conference on Learning and Collaboration Technologies, LCT 2017, held as part of the 19th International Conference on Human-Computer Interaction, HCII 2017, in Vancouver, BC, Canada, in July 2017, in conjunction with 15 thematically similar conferences. The 1228 papers presented at the HCII 2017 conferences were carefully reviewed and selected from 4340 submissions. The papers 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 papers included in this volume are organized in the following topical sections: multimodal and natural interaction for learning; learning and teaching ecosystems; e-learning, social media and MOOCs; beyond the classroom; and games and gamification for learning.

Monitor Unit Calculations for External Photon and Electron Beams Mar 03 2020

Field-cycling NMR Relaxometry Nov 30 2019 Field-cycling NMR relaxometry is evolving into a methodology of widespread interest with recent technological developments resulting in powerful and versatile commercial instruments. Polymers, liquid crystals, biomaterials, porous media, tissue, cement and many other materials of practical importance can be studied using this technique. This book summarises the expertise of leading scientists in the area and the editor is well placed, after four decades of working in this field, to ensure a broad ranging and high quality title. Starting with an overview of the basic principles of the technique and the scope of its use, the content then develops to look at theory, instrumentation, practical limitations and applications in different systems. Newcomers to the field will find this book invaluable for successful use of the technique. Researchers already in academic and industrial settings, interested in molecular dynamics and magnetic resonance, will discover an important addition to the literature.

Microwave Devices and Circuits Sep 28 2019

AI and Learning Systems Oct 02 2022 Over the last few years, interest in the industrial applications of AI and learning systems has surged. This book covers the recent developments and provides a broad perspective of the key challenges that characterize the field of Industry 4.0 with a focus on applications of AI. The target audience for this book includes engineers involved in automation system design, operational planning, and decision support. Computer science practitioners and industrial automation platform developers will also benefit from the timely and accurate information provided in this work. The book is organized into two main sections comprising 12 chapters overall: •Digital Platforms and Learning Systems •Industrial Applications of AI

Electric and Magnetic Fields Oct 22 2021 This book contains the edited versions of the papers presented at the Second International Workshop on Electric and Magnetic Fields held at the Katholieke Universiteit van Leuven (Belgium) in May 1994. This Workshop deals with numerical solutions of electromagnetic problems in real life applications. The topics include coupled problems (thermal, mechanical, electric circuits), CAD & CAM applications, 3D eddy current and high frequency problems, optimisation and application oriented numerical problems. This workshop was organised jointly by the AIM (Association of Engineers graduated from de Montefiore Electrical Institute) together with the Departments of Electrical Engineering of the Katholieke Universiteit van Leuven (Prof. R. Belmans), the University of Gent (Prof. J. Melkebbek) and the University of Liege (Prof. W. Legros). These laboratories are working together in the framework of the Pole d'Attraction Interuniversitaire - Inter-University Attractie-Pole 51 - on electromagnetic systems led by the University of Liege and the research work they perform covers most of the topics of the Workshop. One of the principal aims of this Workshop was to provide a bridge between the electromagnetic device designers, mainly industrialists, and the electromagnetic field computation developers. Therefore, this book contains a continuous spectrum of papers from application of electromagnetic models in industrial design to presentation of new theoretical developments.

EQ8 Block Library Aug 20 2021 This is a fun, uncomplicated book for any EQ8 user. In your busy lifestyle, you probably don't have the time to sit at the computer and take a long look at every block in the EQ8 Library. This book offers an escape from the computer to a world of inspiration. So between meetings, soccer games or whatever fills your life, flip through the pages of this visually appealing book and simply enjoy the view, or use it to plan the blocks you'll use in your next quilt. All 6,700+ blocks are organized by category and style, just as they appear in EQ8. Each is named, illustrated and indexed. Use this book to find the blocks you want to use for your next EQ8 project. It's so easy to use the Block Library Search tools to quickly find the blocks in EQ8 software.

Applied Iterative Methods Dec 12 2020 This book is a collection of essays on iterative algorithms and their uses. It focuses on the mathematics of medical image reconstruction, with emphasis on Fourier inversion. The book discusses the problems and algorithms in the context of operators on finite-dimensional Euclidean space.

April 2022 - Surplus Record Machinery & Equipment Directory Apr 27 2022 SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 95,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. April 2022 issue. Vol. 99, No. 4

Good Agricultural Practices for Greenhouse Vegetable Crops Mar 15 2021 This publication capitalizes on the experience of scientists from the North Africa and Near East countries, in collaboration with experts from around the world, specialized in the different aspects of greenhouse crop production. It provides a comprehensive description and assessment of the greenhouse production practices in use in Mediterranean climate areas that have helped diversify vegetable production and increase productivity. The publication is also meant to be used as a reference and tool for trainers and growers as well as other actors in the greenhouse vegetables value chain in this region.

New Trends in Medical and Service Robots Sep 01 2022 This book contains mainly the selected papers of the First International Workshop on Medical and Service Robots, held in Cluj-Napoca, Romania, in 2012. The high quality of the scientific contributions is the result of a rigorous selection and improvement based on the participants' exchange of opinions and extensive peer-review. This process has led to the publishing of the present collection of 16 independent valuable contributions and points of view and not as standard symposium or conference proceedings. The addressed issues are: Computational Kinematics, Mechanism Design, Linkages and Manipulators, Mechanisms for Biomechanics, Mechanics of Robots, Control Issues for Mechanical Systems, Novel Designs, Teaching Methods, all of these being concentrated around robotic systems for medical and service applications. The results are of interest to researchers and professional practitioners as well as to Ph.D. students in the field of mechanical and electrical engineering. This volume marks the start of a subseries entitled "New Trends in Medical and Service Robots" within the Machine and Mechanism Science Series, presenting recent trends, research results and new challenges in the field of medical and service robotics.

The NASTRAN Theoretical Manual Sep 08 2020

Ludic, Co-design and Tools Supporting Smart Learning Ecosystems and Smart Education Jul 19 2021 This book presents papers from the 5th International Conference on Smart Learning Ecosystems and Regional Development, which promotes discussions on R&D work, policies, case studies, entrepreneur experiences, with a particular focus on understanding the relevance of smart learning ecosystems for regional development and social innovation, and how the effectiveness of the relation of citizens and smart ecosystems can be boosted. The book explores how technology-mediated instruments can foster citizens' engagement with learning ecosystems and territories, providing insights into innovative human-centric design and

development models/techniques, education/training practices, informal social learning, innovative citizen-driven policies, and technology-mediated experiences and their impact. As such, it will inspire the social innovation sectors and ICT, as well as economic development and deployment strategies and new policies for smarter proactive citizens.

Proceedings of the 2000 IEEE Sensor Array and Multichannel Signal Processing Workshop Jan 01 2020 This work contains the proceedings of the Sensor Array and Multichannel Workshop held in the year 2000. It should be useful to researchers, professors, practitioners, students and professionals.

Smart Trends in Computing and Communications Dec 24 2021 This book gathers high-quality papers presented at the Fifth International Conference on Smart Trends in Computing and Communications (SmartCom 2021), organized by Global Knowledge Research Foundation (GR Foundation) from March 2 3, 2021. It covers the state of the art and emerging topics in information, computer communications, and effective strategies for their use in engineering and managerial applications. It also explores and discusses the latest technological advances in, and future directions for, information and knowledge computing and its applications.

Carbon Dioxide Utilization to Sustainable Energy and Fuels Jun 29 2022 This edited book provides an in-depth overview of carbon dioxide (CO₂) transformations to sustainable power technologies. It also discusses the wide scope of issues in engineering avenues, key designs, device fabrication, characterizations, various types of conversions and related topics. It includes studies focusing on the applications in catalysis, energy conversion and conversion technologies, etc. This is a unique reference guide, and one of the detailed works is on this technology. The book is the result of commitments by leading researchers from various backgrounds and expertise. The book is well structured and is an essential resource for scientists, undergraduate, postgraduate students, faculty, R&D professionals, energy chemists and industrial experts.

February 2022 - Surplus Record Machinery & Equipment Directory Jan 25 2022 SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 95,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. February 2022 issue. Vol. 99, No. 2

EQ8 Designing Quilts Nov 03 2022 This book will teach you to design with the most popular tools and features in EQ8 software! Learn EQ8 quilt design secrets directly from EQ experts. Each step-by-step lesson is like taking a class in your home. Perfect for EQ8 users at any learning stage--beginning, intermediate, or advanced. Increase your knowledge of the tools and features, discover new tricks to help make your creativity a reality, and then use all of this information as inspiration to plan and design your own amazing quilts!

Unsteady Aerodynamics, Aeroacoustics and Aeroelasticity of Turbomachines Jan 13 2021 This textbook is a collection of technical papers that were presented at the 10th International Symposium on Unsteady Aerodynamics, Aeroacoustics, and Aeroelasticity of Turbomachines held September 8-11, 2003 at Duke University in Durham, North Carolina. The papers represent the latest in state of the art research in the areas of aeroacoustics, aerothermodynamics, computational methods, experimental testing related to flow instabilities, flutter, forced response, multistage, and rotor-stator effects for turbomachinery.

Reliability and Statistics in Transportation and Communication Feb 11 2021 This book reports on cutting-edge theories and methods for analyzing complex systems, such as transportation and communication networks and discusses multi-disciplinary approaches to dependability problems encountered when dealing with complex systems in practice. The book presents the most noteworthy methods and results discussed at the International Conference on Reliability and Statistics in Transportation and Communication (RelStat), which took place in Riga, Latvia on October 18 – 21, 2017. It spans a broad spectrum of topics, from mathematical models and design methodologies, to software engineering and data security issues, as well as practical problems in technical systems, such as transportation, and telecommunications.

Radiation Dose from Multidetector CT Jun 17 2021 Computed tomography (CT) is a powerful technique providing precise and confident diagnoses. The burgeoning use of CT has resulted in an exponential increase in collective radiation dose to the population. Despite investigations supporting the use of lower radiation doses, surveys highlight the lack of proper understanding of CT parameters that affect radiation dose. Dynamic advances in CT technology also make it important to explain the latest dose-saving strategies in an easy-to-comprehend manner. This book aims to review all aspects of the radiation dose from CT and to provide simple rules and tricks for radiologists and radiographers that will assist in the appropriate use of CT technique. The second edition includes a number of new chapters on the most up-to-date strategies and technologies for radiation dose reduction while updating the outstanding contents of the first edition. Vendor perspectives are included, and an online image gallery will also be available to readers.

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