Journal Of Computer Science Technology And Application Impact Factor

The Science, Technology and Application of Titanium Technology Applications in Education Cloud VR Information Technology and Computer Application Engineering Membrane Technology and Applications Object Technology in Application Development Blockchain Technology and Applications *Blockchain Technology and Applications From Visual Surveillance to Internet of Things* Science, Technology and Applications of Metals in Additive Manufacturing Technology and Applications of Amorphous Silicon A Framework for K-12 Science Education Particle Technology and Applications Fet Technology and Application Smart Technology Applications in Business Environments *Robot Intelligence Technology and Applications 2 Interior Lighting Intelligent Techniques and Applications in Science and Technology* Technology Applications in School Psychology Consultation, Supervision, and Training Metamaterials Information and Communication Technology and Applications Aerosol Science MPLS Surveying Engineering Technology and Application Synthesis, Technology and Applications of Carbon Nanomaterials Implementation and Applications of DSL Technology *Entertainment Computing* Plasma Technology for Biomedical Applications Coastal Reservoir Technology and Applications *Making Technology Work* 2022 International Symposium on Computer Technology and Application (ISCTA 2022) Micropropagation TELEMEDICINE TECHNOLOGY AND APPLICATIONS (MHEALTH, TELEHEALTH AND EHEALTH) Adhesives Technology for Electronic Applications *Chemical Technology and Informatics in Chemistry with Applications* Computer-Aided Applications in Pharmaceutical Technology *Applications of Nuclear and Radioisotope Technology* Internet of Things. Technology and Applications Medical Imaging Ultra-thin Chip Technology and Applications

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Technology Applications in Education Oct 02 2022 This volume identifies promising learning, teaching, and assessment strategies for the use and assessment of technology in educational settings, specifically: *educational context (e.g., organizational and structural factors that contribute to the effective use of technology in school settings); *promising learning and teaching strategies; *promising technology-based assessment procedures and methods; *policy implementation issues; and *a summary of current research on the effective use of technology in education. Chapter authors represent a variety of perspectives and disciplines, from computer science, cognitive and educational psychology, and educational administration. Authors represent government, business, and university communities from within and outside the U.S. These multiple perspectives contribute to the overall understanding of current technology use in education and help in identifying future research needs. Technology Applications in Education: A Learning View explores the state of the art of technology in K-16 education from a learning perspective rather than a hardware/software view. It is designed for professionals and graduate students in the educational technology, training, assessment/evaluation, school administration, military psychology, and educational psychology communities. This book is characterized in the following montage of factors: *the primacy of learning as a focus for technology implementation; *a focus on technology uses in K-16 education; *a focus on the assessment of both individuals and teams; *a broad variety of methodological approaches from qualitative to instructional design to quantitative (e.g., structural equation modeling); *a need to support the development of technology-based curriculum and tools; and *a need for theory-driven and evaluation studies to increase our knowledge.

TELEMEDICINE TECHNOLOGY AND APPLICATIONS (MHEALTH, TELEHEALTH AND EHEALTH) Jan 31 2020 Having now come of age, telemedicine has the potential of having a greater impact on the future of medicine than any other modality. Telemedicine, in the final analysis, brings reality to the vision of an enhanced accessibility of medical care and a global network of healthcare, which was not even imagined two decades ago. Today, the field of telemedicine has expanded rapidly and is likely to assume greater importance in healthcare delivery in the coming times. To address the developing trend of telemedicine applications in both urban and rural areas throughout the world, this

book has been designed to discuss different technologies which are being applied in the field of telemedicine and their applications including advances in wireless technologies, the use of fibre optics in telecommunication, availability of broadband Internet, digital imaging technologies and compressed video techniques that have eliminated the problems of telemedicine and also reduced the cost. Starting with the basic hospital based telemedicine system and leading to mHealth, teleHealth and eHealth, the book covers as to how various physiological signals are acquired from the body, processed and used for monitoring the patients anywhere anytime. The book is primarily intended for undergraduate and postgraduate students of Biomedical Engineering, Biomedical Instrumentation, Computer Science and Information Technology and Hospital Management and Nursing. KEY FEATURES • Covers all aspects of telemedicine technology, including medical devices, telecommunications, networking and interfacing techniques • Provides step-by-step coverage on how to set up a telemedicine centre • Includes broad application areas of telemedicine • Covers essentials of telemedicine including mHealth, eHealth and teleHealth • Provides abbreviations/acronyms and glossary of commonly used terms in telemedicine

From Visual Surveillance to Internet of Things Feb 23 2022 From Visual Surveillance to Internet of Things: Technology and Applications is an invaluable resource for students, academicians and researchers to explore the utilization of Internet of Things with visual surveillance and its underlying technologies in different application areas. Using a series of present and future applications – business insights, indoor-outdoor securities, smart grids, human detection and tracking, intelligent traffic monitoring, e-health department and many more – this book will support readers to obtain a deeper knowledge in implementing IoT with visual surveillance. The book offers comprehensive coverage of the most essential topics, including: The rise of machines and communications to IoT (3G, 5G) Tools and technologies of IoT with visual surveillance IoT with visual surveillance for real-time applications IoT architectures Challenging issues and novel solutions for realistic applications Mining and tracking of motion-based object data Image processing and analysis into the unified framework to understand both IOT and computer vision applications This book will be an ideal resource for IT professionals, researchers, under- or post-graduate students, practitioners, and technology developers who are interested in gaining a deeper knowledge in implementing IoT with visual surveillance, critical applications domains, technologies, and solutions to handle relevant challenges. Dr. Lavanya Sharma is an Assistant Professor in the Amity Institute of Information Technology at Amity University UP, Noida, India. She is a recipient of several prestigious awards during her academic career. She is an active nationally-recognized researcher who has published numerous papers in her field. She has contributed as an Organizing Committee member and session chair at Springer and IEEE conferences. Prof. Pradeep K. Garg worked as a Vice Chancellor, Uttarakhand Technical University, Dehradun. Presently he is working in the department of Civil Engineering, IIT Roorkee as a professor. Prof. Garg has published more than 300 technical papers in national and international conferences and journals. He has completed 26 research projects funded by various government agencies, guided 27 PhD candidates, and provided technical services to 84 consultancy projects on various aspects of Civil Engineering.

Intelligent Techniques and Applications in Science and Technology May 17 2021 This book provides innovative ideas on achieving sustainable development and using green technologies to conserve our ecosystem. Innovation is the successful exploitation of a new idea. Through innovation, we can achieve MORE while using LESS. Innovations in science & technology will not only help mankind as a whole, but also contribute to the economic growth of individual countries. It is essential that the global problem of environmental degradation be addressed immediately, and thus, we need to rethink the concept of sustainable development. Indeed, new environmentally friendly technologies are fundamental to attaining sustainable development. The book shares a wealth of innovative green technological ideas on how to preserve and improve the quality of the environment, and how to establish a more resource-efficient and sustainable society. The book provides an interdisciplinary approach to addressing various technical issues and capitalizing on advances in computing & optimization for scientific & technological development, smart information, communication, bio-monitoring, smart cities, food quality assessment, waste management, environmental aspects, alternative energies, sustainable infrastructure development, etc. In short, it offers valuable information and insights for budding engineers, researchers, upcoming young minds and industry professionals, promoting awareness for recent advances in the various fields mentioned above.

Chemical Technology and Informatics in Chemistry with Applications Nov 30 2019 This volume reflects the huge breadth and diversity in research and the application of industrial and engineering chemistry and cheminformatics. The book presents cutting-edge research developments and new insights that emphasize the vibrancy of industrial and engineering chemistry and cheminformatics today. The first section of the book focuses on new insights in engineering chemistry while the second part looks at the promising future and novel approaches in chemical informatics, which has vast implications for industrial and pharmaceutical applications. Several chapters examine various industrial processes for emerging materials and determine practical use under a wide range of conditions, helping to establish what is needed to produce a new generation of materials.

Membrane Technology and Applications Jun 29 2022 Table of Contents Preface Acknowledgments for the first edition Acknowledgments for the second edition 1 Overview of Membrane Science and Technology 1 2 Membrane Transport Theory 15 3 Membranes and Modules 89 4 Concentration Polarization 161 5 Reverse Osmosis 191 6 Ultrafiltration 237 7 Microfiltration 275 8 Gas Separation 301 9 Pervaporation 355 10 Ion Exchange Membrane Processes - Electrodialysis 393 11 Carrier Facilitated Transport 425 12 Medical Applications of Membranes 465 13

Other Membrane Processes 491 Appendix 523 Index 535.

Entertainment Computing Aug 08 2020 This volume is the Proceedings of the First International Workshop on Entertainment Computing (IWEC 2002). Entertainment has been taking very important parts in our life by refreshing us and activating our creativity. Recently by the advancement of computers and networks new types of entertainment have been emerging such as video games, entertainment robots, and network games. As these new games have a strong power to change our lives, it is good time for people who work in this area to discuss various aspects of entertainment and to promote entertainment related researches. Based on these considerations, we have organized a first workshop on entertainment computing. This workshop brings together researchers, developers, and practitioners working in the area of entertainment computing. It covers wide range of entertainment computing such as theoretical issues, hardware/software issues, systems, human interfaces, and applications. The particular areas covered by the workshop are: 1. Computers & Games Computer game algorithms, modeling of players, web technologies for networked games, human interface technologies for game applications. 2. Home/Arcade Games and Interactive Movies Video game computer technologies, motion capture technologies, real-time computer graphics technologies, interactive movie systems, story generation for games/movies, human factors of video games.

Surveying Engineering Technology and Application Nov 10 2020

Ultra-thin Chip Technology and Applications Jun 25 2019 Ultra-thin chips are the "smart skin" of a conventional silicon chip. This book shows how very thin and flexible chips can be fabricated and used in many new applications in microelectronics, Microsystems, biomedical and other fields. It provides a comprehensive reference to the fabrication technology, post processing, characterization and the applications of ultra-thin chips.

Interior Lighting Jun 17 2021 This book outlines the underlying principles on which interior lighting should be based, provides detailed information on the lighting hardware available today and gives guidance for the design of interior lighting installations resulting in good visual performance and comfort, alertness and health. The book is divided into three parts. Part One discusses the fundamentals of the visual and non-visual mechanisms and the practical consequences for visual performance and comfort, for sleep, daytime alertness and performance, and includes chapters on age effects, therapeutic effects and hazardous effects of lighting. Part Two deals with the lighting hardware: lamps (with emphasis on LEDs), gear, drivers and luminaires including chapters about lighting controls and LEDs beyond lighting. Part Three is the application part, providing the link between theory and practice and supplying the reader with the knowledge needed for lighting design. It describes the relevant lighting criteria for good and efficient interior lighting and discusses the International, European and North American standards and recommendations for interior lighting. A particular focus is on solid state light sources (LEDs) and the possibility to design innovative, truly-sustainable lighting installations that are adaptable to changing circumstances. The design of such installations is difficult and the book offers details of the typical characteristics of the many different solid state light sources, and of the aspects determining the final quality of interior lighting. Essential reading for interior lighting designers, lighting engineers and architects, the book will also be a useful reference for researchers and students. Reviews of Road Lighting by the same author: "If you are going to design streetlighting, you must read this book....a solid, comprehensive textbook written by an acknowledged expert in the field – if you have a query about any aspect of streetlighting design, you will find the answer here." – LUX, August 2015 "...a realy comprehensive book dealing with every aspect of the subject well...essential text for reference on this subject" – Lighting Journal, March 2015

MPLS Dec 12 2020 "Written by two of the foremost experts on the subject who illustrate concepts with practical examples of their application. The most authoritative text on MPLS. Highly Recommended!" -Daniel Awduche Distinguished Technical Member UUNET (MCI Worldcom) "At last a comprehensive presentation of MPLS reflecting its development and usage, this book is a MUST for any Network Engineering Manager contemplating the deployment of MPLS." -Monique Jeanne Morrow IP Engineering Manager Swisscom AG "Davie and Rekhter provide a detailed and unbiased chronology of the evolution of MPLS. Their scientific approach to decomposing various protocols into their fundamental elements is interwoven with a more pragmatic compilation of diagrams, typical networking scenarios, and applications. Provides a solid knowledge base for researchers and operators dedicated to MPLS and its future." -Eric Dean Senior Director, Internetwork Engineering Global One Multiprotocol Label Switching (MPLS) is now a widely deployed technology, which addresses a variety of issues, including traffic engineering, Quality of Service, Virtual Private Networks, and IP/ATM integration. MPLS: Technology and Applications is the first book that provides a detailed analysis of the architecture, protocols, and application of MPLS. Written by experts who personally authored key parts of the standard, this book will enable network operators and designers to determine which aspects of networks would benefit from MPLS. It is also a definitive reference for engineers implementing MPLS-based products. Features: Covers major applications of MPLS: traffic engineering, VPNs, IP/ATM integration, and QoS Describes all the major protocols that comprise MPLS, including LDP, RSVP, and CR-LDP Goes beyond the RFCs to explain how and why key design decisions were made Provides a complete discussion of constraint-based routing

Applications of Nuclear and Radioisotope Technology Sep 28 2019 Applications of Nuclear and Radioisotope Technology: For Peace and Sustainable Development presents the latest technology and research on nuclear energy with a practical focus on a variety of applications. Author Dr. Khalid Al-Nabhani provides a thorough and well-

rounded view of the status of nuclear power generation in order to promote its benefits towards a sustainable, clean and secure future. This book offers innovative theoretical, analytical, methodological and technological approaches, encourages a positive societal and political uptake. This book enhances awareness of peaceful nuclear applications across a broad spectrum of industries, including power generation, agriculture, and medicine. It presents successful examples and lessons learned across many countries that are working towards their sustainability goals in cooperation with the IAEA and AAEA, to benefit researchers, professionals and decision-makers implementing and developing their own nuclear strategies for the future. Presents theoretical and scientific knowledge which is supported with real examples and successful experiences Provides prevailing perceptions of nuclear safety and security concerns by presenting the most advanced safety and security systems Applies technologies to a variety of applications to guide the reader to make informed decisions to help meet sustainability goals

Making Technology Work May 05 2020 This book presents fifteen cases of technology applications in the energy and environment sectors, including solar, wind, fuel cell, nuclear, coal combustion and emission control technologies. The case studies demonstrate the importance of an interdisciplinary approach, integrating technical and non-technical aspects of the problem. They also introduce a toolbox of analytical techniques useful in the context of realistic technology application. These techniques include energy and mass balances, project financial analysis tools, treatment of external costs and benefits, probabilistic risk assessment, learning curves, regression analysis, and life cycle costing. Each case study presents a description of the relevant technology at a level accessible to anyone familiar with elementary concepts in basic science and engineering. The book is addressed to upper-level undergraduate students in the natural sciences, engineering and the social sciences who are interested in learning about problems of technology application, as well as technology practitioners in industry and government.

Internet of Things. Technology and Applications Aug 27 2019 This book constitutes the refereed post-conference proceedings of the Second IFIP International Cross-Domain Conference on Internet of Things, IFIPIoT 2021, held virtually in November 2021. The 15 full papers presented were carefully reviewed and selected from 33 submissions. Also included is a summary of two panel sessions held at the conference. The papers are organized in the following topical sections: challenges in IoT Applications and Research, Modernizing Agricultural Practice Using IoT, Cyber-physical IoT systems in Wildfire Context, IoT for Smart Health, Security, Methods.

Coastal Reservoir Technology and Applications Jun 05 2020 Coastal Reservoir Technology and Applications presents the analyses showing that the world is not running out of water, but water is running out of river mouths—we need to work to harness this resource. Compared with inland water storages and desalination technology, coastal reservoirs are a nature-based water solution without disturbing the environment. This book mainly answers the questions of what the coastal reservoir technology is, where we should construct coastal reservoirs, and how to supply sufficient, high-quality and affordable water to the world with minimum environmental/social impacts. Chapter 1 reviews modes of water resources development in the history along with current problems and reasons. Chapter 2 discusses the definition of coastal reservoirs, its classifications and applications, and the SPP/downstream water management strategy. Other chapters analyse water crisis in every continent, as well as their water solutions. The possible coastal reservoir for each major river is suggested as well. Without freshwater, no one can survive. Likewise, without sufficient, high-quality and affordable freshwater, no community can achieve sustainable development. However, water is also a killer when it is too much (floods), too dirty (pollution), and too turbid. Different from other books, this resource shows how to solve these water problems. Coastal reservoirs and SPP strategy are suggested to develop floodwater in a safe way in coastal and inland regions, respectively. Solution of water-food-energy-ecosystem nexus needs a paradigm shift from upstream to downstream water management, i.e., from mountainous dams to coastal reservoirs, which conserves the precious, clean freshwater in seawater environment. Provides an analysis of every large river in the world to help users determine the feasibility of using a coastal reservoir in each location Presents a global coverage, including case studies where this technology has already been implemented Authored by a world expert on coastal reservoirs, with several patents in the area

Computer-Aided Applications in Pharmaceutical Technology Oct 29 2019 Research and development in the pharmaceutical industry is a time-consuming and expensive process, making it difficult for newly developed drugs to be formulated into commercially available products. Both formulation and process development can be optimized by means of statistically organized experiments, artificial intelligence and other computational methods. Simultaneous development and investigation of pharmaceutical products and processes enables application of quality by design concept that is being promoted by the regulatory authorities worldwide. Computer-aided applications in pharmaceutical technology covers the fundamentals of experimental design application and interpretation in pharmaceutical technology, chemometric methods with emphasis of their application in process control, neural computing (artificial neural networks, fuzzy logic and decision trees, evolutionary computing and genetic algorithms, self-organizing maps), computer-aided biopharmaceutical characterization as well as application of computational fluid dynamics in pharmaceutical technology. All of these techniques are essential tools for successful building of quality into pharmaceutical products and processes from the early stage of their development to selection of the optimal ones. In addition to theoretical aspects of various methods, the book provides numerous examples of their application in the field of pharmaceutical technology. A comprehensive review

of the current state of the art on various computer aided applications in pharmaceutical technology Case studies are presented in order to facilitate understanding of various concepts in computer-aided applications

The Science, Technology and Application of Titanium Nov 03 2022 The Science, Technology and Application of Titanium contains the proceedings of an International Conference organized by the Institute of Metals, The Metallurgical Society of AIME, and the American Society for Metals in association with the Japan Institute of Metals and the Academy of Sciences of the USSR and held at the Royal Festival Hall in London, on May 21-24, 1968. The papers explore scientific and technological developments as well as applications of titanium and cover topics ranging from processing of titanium to its chemical and environmental behavior, physics, thermodynamics, and kinetics. Deformation and fracture, phase transformations and heat treatment, and alloying are also discussed. This book is comprised of 114 chapters and begins with an overview of the titanium industry in Europe and the United States. The reader is then introduced to primary and secondary fabrication of titanium; corrosion and oxidation; physical properties of titanium alloys; interaction of titanium with elements of the periodic system; and elastic interactions between dislocations and twin and grain boundaries in titanium. The crystallography of deformation twinning in titanium is also examined, along with superplasticity and transformation plasticity in titanium. The remaining chapters focus on interstitial strengthening of titanium alloys; mechanism of martensitic transformation in titanium and its alloys; phase relationships in titanium-oxygen alloys; strengthening of titanium alloys by shock deformation; and titanium hot forming. This monograph will be of interest to chemists and metallurgists.

2022 International Symposium on Computer Technology and Application (ISCTA 2022) Apr 03 2020

Metamaterials Mar 15 2021 Metamaterials have been in research limelight for the last few years owing to the exotic electromagnetic features these exhibit. With certain combinational forms of the design, these can be of prudent applications in developing antennas, filters, absorbers, sensors, energy harvesters, and many others. As such, the role of engineered mediums remains greatly important as the frequency region of operation determines the structure (of the medium(s)) to be developed – the fact that is exploited in the on-demand kind of tailoring the electromagnetic response of metamaterials. The relevant R&D investigators show keen interest in the fabrication of varieties of novel miniaturized devices that can be of great potentials in many micro- as well as nanotechnology-oriented applications. With this view point in mind, the Book provides the glimpse of phenomenal growth of research in this direction through covering the topics pivoted to fundamental descriptions, and theoretical and experimental results reported by pioneering scientists. It is expected that the book will be of benefit to novice researchers (such as graduate students) and expert scientists in universities and research laboratories. Some of the contents in the book are centered on industrial applications of metamaterials, thereby making the volume useful to the R&D scientists in certain industries. In summary, the book

Medical Imaging Jul 27 2019 The book has two intentions. First, it assembles the latest research in the field of medical imaging technology in one place. Detailed descriptions of current state-of-the-art medical imaging systems (comprised of x-ray CT, MRI, ultrasound, and nuclear medicine) and data processing techniques are discussed. Information is provided that will give interested engineers and scientists a solid foundation from which to build with additional resources. Secondly, it exposes the reader to myriad applications that medical imaging technology has enabled.

Synthesis, Technology and Applications of Carbon Nanomaterials Oct 10 2020 Synthesis, Technology and Applications of Carbon Nanomaterials explores the chemical properties of different classes of carbon nanomaterials and their major applications. As carbon nanomaterials are used for a variety of applications due to their versatile properties and characteristics, this book discusses recent advances in synthesis methods, characterization, and applications of 0D -3D dimensional carbon nanomaterials. It is an essential resource for readers focusing on carbon nanomaterials research. Explores the chemical properties of different classes of carbon nanomaterials and their major applications Discusses recent advances in synthesis methods, characterization, and applications of 0D -3D dimensional carbon nanomaterials

A Framework for K-12 Science Education Nov 22 2021 Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for

K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

Adhesives Technology for Electronic Applications Jan 01 2020 Adhesives are widely used in the manufacture and assembly of electronic circuits and products. Generally, electronics design engineers and manufacturing engineers are not well versed in adhesives, while adhesion chemists have a limited knowledge of electronics. This book bridges these knowledge gaps and is useful to both groups. The book includes chapters covering types of adhesive, the chemistry on which they are based, and their properties, applications, processes, specifications, and reliability. Coverage of toxicity, environmental impacts and the regulatory framework make this book particularly important for engineers and managers alike. The third edition has been updated throughout and includes new sections on nanomaterials, environmental impacts and new environmentally friendly 'green' adhesives. Information about regulations and compliance has been brought fully up-to-date. As well as providing full coverage of standard adhesive types, Licari explores the most recent developments in fields such as: • Tamper-proof adhesives for electronic security devices. • Bio-compatible adhesives for implantable medical devices. • Electrically conductive adhesives to replace toxic tin-lead solders in printed circuit assembly – as required by regulatory regimes, e.g. the EU's Restriction of Hazardous Substances Directive or RoHS (compliance is required for all products placed on the European market). • Nano-fillers in adhesives, used to increase the thermal conductivity of current adhesives for cooling electronic devices. A complete guide for the electronics industry to adhesive types, their properties and applications – this book is an essential reference for a wide range of specialists including electrical engineers, adhesion chemists and other engineering professionals Provides specifications of adhesives for particular uses and outlines the processes for application and curing – coverage that is of particular benefit to design engineers, who are charged with creating the interface between the adhesive material and the microelectronic device Discusses the respective advantages and limitations of different adhesives for a varying applications, thereby addressing reliability issues before they occur and offering useful information to both design engineers and Quality Assurance personnel

Fet Technology and Application Sep 20 2021 This book provides the reader with some insights into the many styles of field effect transistors (FETs) being used. It offers a rudimentary understanding of their operation and performance. The book explains the complex terminology that defines the various FET parameters.

Science, Technology and Applications of Metals in Additive Manufacturing Jan 25 2022 Science, Technology and Applications of Metal Additive Manufacturing provides a holistic picture of metal Additive Manufacturing (AM) that encompasses the science, technology and applications for the use of metal AM. Users will find design aspects, various metal AM technologies commercially available, a focus on merits and demerits, implications for qualification and certification, applications, cost modeling of AM, and future directions. This book serves as an educational guide, providing a holistic picture of metal AM that encompasses science, technology and applications for the real-life use of metal AM. Includes an overall understanding of metal additive manufacturing, Including steps involved (process flow) Discusses available commercial metal AM technologies and their relative strengths and weaknesses Reviews the process of qualification of AM parts, various applications, cost modeling, and the future directions of metal AM

Information Technology and Computer Application Engineering Jul 31 2022 This proceedings volume brings together some 189 peer-reviewed papers presented at the International Conference on Information Technology and Computer Application Engineering, held 27-28 August 2013, in Hong Kong, China. Specific topics under consideration include Control, Robotics, and Automation, Information Technology, Intelligent Computing and Telecommunication, Computer Science and Engineering, Computer Education and Application and other related topics. This book provides readers a state-of-the-art survey of recent innovations and research worldwide in Information Technology and Computer Application Engineering, in so-doing furthering the development and growth of these research fields, strengthening international academic cooperation and communication, and promoting the fruitful exchange of research ideas. This volume will be of interest to professionals and academics alike, serving as a broad overview of the latest advances in the dynamic field of Information Technology and Computer Application Engineering.

Particle Technology and Applications Oct 22 2021 Particle Technology and Applications presents the theoretical and technological background of particle science and explores up-to-date applications of particle technologies in the chemical, petrochemical, energy, mechanical, and materials industries. It looks at the importance of particle science and technology in the development of efficient chemi

Technology Applications in School Psychology Consultation, Supervision, and Training Apr 15 2021 Technology Applications in School Psychology Consultation, Supervision, and Training explores the ways in which the field of school psychology is using technological innovations to support and improve graduate student training and supervision, as well as school consultation. Chapters based on current research and written by experts address the integration of telehealth tools and strategies such as telepresence robots, bug-in-the-ear devices, videoconferencing, virtual platforms, and more, including a section dedicated to navigating practical, ethical, and legal concerns. Throughout, the volume engages with relevant considerations relating to data management, professional standards, and regulatory guidelines. This is a comprehensive and up-to-date resource for all those

looking to understand the place and potential of established and emerging technologies within school psychology training and practice.

Object Technology in Application Development May 29 2022 This comprehensive guide, developed at the IBM International TechnicalSupport Organization Center in San Jose, California, is idealfor managers and developers applying object-oriented methods inlarge-scale information technology environments. The authors, Daniel Tkach and Richard Puttick, two IBM consultants with extensiveexperience in object technology projects worldwide, demonstratethe benefits, pitfalls and trade-offs of object-oriented methodologies,providing a wealth of information that will help managers makechoices about the resources and technologies available for applicationdevelopment. The book discusses the impact of object technologyon management decisions with examples from real, full-scale environmentsin which productivity has increased significantly from the useof object technology in the development of core enterprise applications. HIGHLIGHTS OF THE SECOND EDITION Provides a clear and solid explanation of the principles ofobject-oriented technology. Describes and compares the methodologies currently in use inobject-oriented development environments. Includes a new chapter on VMT (Visual Modeling Technique), asuccessfully tested methodology that integrates visual programminginto mainstream object application development. Analyzes the role of development tools in building object-orientedapplications. Discusses the issues involved in building a user interface. Includes a full chapter on the structure, dynamics, and managementof object-oriented application development teams. Details the use of a configuration management tool. Explains how "legacy code" can be integrated withobject applications. Provides examples with state-of-the-art development environments. 0201498332B04062001

Blockchain Technology and Applications Apr 27 2022 Blockchain is emerging as a powerful technology, which has attracted the wider attention of all businesses across the globe. In addition to financial businesses, IT companies and business organizations are keenly analyzing and adapting this technology for improving business processes. Security is the primary enterprise application. There are other crucial applications that include creating decentralized applications and smart contracts, which are being touted as the key differentiator of this pioneering technology. The power of any technology lies in its ecosystem. Product and tool vendors are building and releasing a variety of versatile and robust toolsets and platforms in order to speed up and simplify blockchain application development, deployment and management. There are other infrastructure-related advancements in order to streamline blockchain adoption. Cloud computing, big data analytics, machine and deep learning algorithm, and connected and embedded devices all are driving blockchain application development and deployment. Blockchain Technology and Applications illustrates how blockchain is being sustained through a host of platforms, programming languages, and enabling tools. It examines: Data confidential, integrity, and authentication Distributed consensus protocols and algorithms Blockchain systems design criteria and systems interoperability and scalability Integration with other technologies including cloud and big data It also details how blockchain is being blended with cloud computing, big data analytics and IoT across all industry verticals. The book gives readers insight into how this path-breaking technology can be a value addition in several business domains ranging from healthcare, financial services, government, supply chain and retail.

Information and Communication Technology and Applications Feb 11 2021 This book constitutes revised selected papers from the Third International Conference on Information and Communication Technology and Applications, ICTA 2020, held in Minna, Nigeria, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 67 full papers were carefully reviewed and selected from 234 submissions. The papers are organized in the topical sections on Artificial Intelligence, Big Data and Machine Learning; Information Security Privacy and Trust; Information Science and Technology.

Smart Technology Applications in Business Environments Aug 20 2021 Technology continues to make great strides in society by providing opportunities for advancement, inclusion, and global competency. As new systems and tools arise, novel applications are created as well. Smart Technology Applications in Business Environments is an essential reference source for the latest scholarly research on the risks and opportunities of utilizing the latest technologies in different aspects of society such as education, healthcare systems, and corporations. Featuring extensive coverage on a broad range of topics and perspectives including virtual reality, robotics, and social media, this publication is ideally designed for academicians, researchers, students, and practitioners seeking current research on the improvement and increased productivity from the implementation of smart technologies.

Implementation and Applications of DSL Technology Sep 08 2020 The digital subscriber line (DSL) industry is expanding rapidly and a technology once thought to be only transitional will soon clear $100 billion in total annual service revenue. From the world's leading DSL experts, Implementation and Application of DSL Technologies builds upon the theory presented in Fundamentals of DSL Technologies to address issues fundamental to the success of DSL technology, including those that sustain DSL development, constraints, and challenges. This highly practical text peers into the blossoming sub-industries, all born of the DSL. The editors lead with a discussion on splitter circuits and micro-filters and continue by addressing digital chipsets and the capabilities required to mix and match them with various other components. Since testing has become an industry in its own, several chapters describe the various types of testing necessary for service qualification, the evolution of testing and provisioning of services from plain old telephone service, loop qualification, and regulator's decree of spectrum management. The book gives adequate coverage of DSM technology and describes networks for multiple applications in video, telephony,

and Internet data areas and the associated network architectures. In addition, a section on security discusses packet transfer mechanism and voice-over DSL. Offering a vast array of information not currently in the public domain, Implementation and Application of DSL Technologies provides a rigorous survey of DSL applications that illustrates the profound effect this technology is having on the communications industry. When combined with Fundamentals of DSL Technology, this is the most comprehensive and authoritative source of information on DSL.

Robot Intelligence Technology and Applications 2 Jul 19 2021 We are facing a new technological challenge on how to store and retrieve knowledge and manipulate intelligence for autonomous services by intelligent systems which should be capable of carrying out real world tasks autonomously. To address this issue, robot researchers have been developing intelligence technology (InT) for "robots that think" which is in the focus of this book. The book covers all aspects of intelligence from perception at sensor level and reasoning at cognitive level to behavior planning at execution level for each low level segment of the machine. It also presents the technologies for cognitive reasoning, social interaction with humans, behavior generation, ability to cooperate with other robots, ambience awareness and an artificial genome that can be passed on to other robots. These technologies are to materialize cognitive intelligence, social intelligence, behavioral intelligence, collective intelligence, ambient intelligence and genetic intelligence. The book aims at serving researchers and practitioners with a timely dissemination of the recent progress on robot intelligence technology and its applications, based on a collection of papers presented at the at the 2nd International Conference on Robot Intelligence Technology and Applications (RiTA), held in Denver, USA, December 18-20, 2013.

Cloud VR Sep 01 2022 Based on the technical accumulation and practice of Huawei iLab in the Cloud VR field, this book systematically describes the advantages of Cloud VR technologies; technical requirements on clouds, networks, and terminals as well as solution implementation; Cloud VR experience evaluation baselines and methods; and current business practices. Cloud VR introduces cloud computing and cloud rendering to VR services. With fast and stable networks, cloud-based display output and audio output are coded, compressed, and transmitted to user terminals, implementing cloud-based VR service content and content rendering. Cloud VR has stringent requirements on bandwidth and latency, making it a proficient application for 5G and gigabit home broadband networks in the era of "dual G". As the first advocate of Cloud VR, Huawei iLab developed the first prototype of the Cloud VR technical solution, initiated the industry's first Cloud VR industry cooperation plan – VR OpenLab with partners – and incubated the world's first Cloud VR commercial project with China Mobile Fujian. Cloud VR: Technology and Application is the first official publication of Huawei iLab's research and practice achievements. It systematically and thoroughly introduces the Cloud VR concept, solution architecture, key technologies, and business practices and is of great value in academic and social applications. This book is easy to understand, practical, and suitable for VR vendors, VR technology enthusiasts, carriers, network vendors, cloud service providers, universities, and other enterprises and scientific research institutes.

Micropropagation Mar 03 2020 Micropropagation is a technology that has developed within the past 30 years. Earlier overviews of plant tissue culture have reviewed micropropagation as just one of many tissue culture procedures in use. Since the applications of this technology have multiplied so rapidly in recent years, we decided that a specific overview of the technology was now appropriate Our book begins with a review of the general principles of tissue culture as applied to micropropagation. This review is concise since the general topic has been covered in numerous other books and reviews. The basic principles of laboratory design and construction are summarized in the second chapter. Common problems encountered in micropropagation, both during and after culture, are examined in detail in four chapters. As micropropagation developed from a laboratory curiosity to a commercial industry, different considerations became important. These are discussed in two chapters. An attempt has been made to assess the current status of commercial production around the world. This has been difficult because commercial production figures are often closely guarded and little has been done to collect statistics on this growing industry. Applications to a broad range of crops are discussed in a series of chapters. These try to report the state of the art in each area, but since applications for some crops are much more advanced than for others, the focus of these chapters varies depending upon the progress that has been made.

Technology and Applications of Amorphous Silicon Dec 24 2021 This book gives the first systematic and complete survey of technology and application of amorphous silicon, a material with a huge potential in electronic applications. The book features contributions by world-wide leading researchers in this field.

Blockchain Technology and Applications Mar 27 2022 "This book is comprised of chapters written by experts on Blockchain from Austria, Brazil, China, Croatia, Georgia, Germany, Italy, Netherlands, Slovenia, Spain, and Switzerland, on the following topics: (1) Blockchain and the Agenda 2030 by Danielle Mendes Thame Denny, (2) Application of Blockchain Technology in the Field of E-Government Services by Jiarui Zhang, (3) Can the Cybersecurity of Smart Building be Improved Using Blockchain Technology? by Ben van Lier, (4) Influence of Blockchain Applications and Digitalization on Real Estate by Jan Veuger, (5) Blockchain: Technology Looking For a Problem in Real Estate? by Jo Bronckers and Jan Veuger et al., (6) Real Estate Start-up Get a Brick by Wendel Hulsebos and Jan Veuger, (7) Blockchain: An Efficiency Solution For Housing Associations? by Michel Vonk, (8) Blockchain Applications in Support of the Energy Transition by Mieke Oostra and Jelle Rijpma, and (9) Many Keys of Blockchain for Real Estate by Esther Dekker"--

Plasma Technology for Biomedical Applications Jul 07 2020 There is growing interest in the use of physical

plasmas (ionized gases) for biomedical applications, especially in the framework of so-called "plasma medicine", which exploits the action of low-power, atmospheric pressure plasmas for therapeutic purposes. Such plasmas are "cold plasmas", in the sense that only electrons have a high temperature, whereas ions and the neutral gas particles are at or near room temperature. As a consequence, the "plasma flame" can be directly applied to living matter without appreciable thermal load. Reactive chemical species, charged particles, visible and UV radiation, and electric fields are interaction channels of the plasma with pathogens, cells, and tissues, which can trigger a variety of different responses. Possible applications include disinfection, wound healing, cancer treatment, non-thermal blood coagulation, just to mention some. The understanding of the mechanisms of plasma action on living matter requires a strongly interdisciplinary approach, with competencies ranging from plasma physics and technology to chemistry, to biology and finally to medicine. This book is a collection of work that explores recent advances in this field.

Aerosol Science Jan 13 2021 Aerosols influence many areas of our daily life. They are at the core of environmental problems such as global warming, photochemical smog and poor air quality. They can also have diverse effects on human health, where exposure occurs in both outdoor and indoor environments. However, aerosols can have beneficial effects too; the delivery of drugs to the lungs, the delivery of fuels for combustion and the production of nanomaterials all rely on aerosols. Advances in particle measurement technologies have made it possible to take advantage of rapid changes in both particle size and concentration. Likewise, aerosols can now be produced in a controlled fashion. Reviewing many technological applications together with the current scientific status of aerosol modelling and measurements, this book includes: • Satellite aerosol remote sensing • The effects of aerosols on climate change • Air pollution and health • Pharmaceutical aerosols and pulmonary drug delivery • Bioaerosols and hospital infections • Particle emissions from vehicles • The safety of emerging nanomaterials • Radioactive aerosols: tracers of atmospheric processes With the importance of this topic brought to the public's attention after the eruption of the Icelandic volcano Eyjafjallajökull, this book provides a timely, concise and accessible overview of the many facets of aerosol science.