

Biomedical Physics Engineering Express

Jochen Mau, Sergey Mukhin, Guanyu Wang, Shuhua Xu

BIOKYBERNETIKA Jochen Mau, Sergey Mukhin, Guanyu Wang, Shuhua Xu, 2024-12-30 This book aims to engage “Young Science – Talented & Ambitious” for a lasting collaboration to advance holistic mathematical modeling of “how the body works” in variant surroundings. The book sets road signs to mathematics in body’s vital, physical, and cognitive functions, as well as to factors of health impact in person’s environmental and social settings. It showcases selected current research in mathematical and biological theory, mathematical models at molecular, organism, and population levels as well as engineering, imaging, and data sciences methodologies, including bio-informatics and machine learning applications. For overarching theory, evaluation of surrogate structures with category theory, multi-scale whole-body dynamics by separation of functional organization from cellular material as well as mathematical axioms matching classic principles of philosophy in traditional Chinese medicine are introduced. Interested are systems-oriented researchers in all sciences related to human health who seek new profile-shaping challenges in transdisciplinary collaboration.

Electromagnetic Wave Propagation for Industry and Biomedical Applications Lulu Wang, 2022-03-16 This book highlights original research and high-quality technical briefs on electromagnetic wave propagation, radiation, and scattering, and their applications in industry and biomedical engineering. It also presents recent research achievements in the theoretical, computational, and experimental aspects of electromagnetic wave propagation, radiation, and scattering. The book is divided into three sections. Section 1 consists of chapters with general mathematical methods and approaches to the forward and inverse problems of wave propagation. Section 2 presents the problems of wave propagation in superconducting materials and porous media. Finally, Section 3 discusses various industry and biomedical applications of electromagnetic wave propagation, radiation, and scattering.

Biophysical Techniques in Biosciences Nirmal Mazumder, Rajib Biswas, Guan-Yu Zhuo, 2025-05-08 This book details the latest advancements in spectroscopic, analytical and imaging techniques, emphasizing their crucial roles in both research and biomedical diagnostics. The initial chapters introduce the fundamental principles of the techniques, highlighting the use of optical spectroscopies for disease diagnosis, such as oral cancer. The book also explores their innovative applications, such as quantitative optical phase imaging, and the examination of biopolymers like starch through spectroscopy and microscopy. Further, the book discusses cutting-edge developments in biomaterials essential for understanding tissue engineering and

the innovative use of synthesized bioactive glasses. The chapters also examine revolutionary methods such as HPLC and HPTLC techniques for detailed analysis at unprecedented scales and for observing various processes in health and disease. Importantly, the book reviews the impact of machine learning in enhancing the accuracy of disease diagnoses through nonlinear optical microscopy. The book also presents technological breakthroughs in the transformative impact of these techniques in developing diagnostic and therapeutic solutions. This book is intended for students, researchers, and professionals in biophysics, medical imaging, and biomedical engineering. Key Features: Highlights innovative applications such as quantitative optical phase imaging and the use of spectroscopy in disease diagnosis Explores the fundamental principles of advanced spectroscopic and imaging techniques Demonstrates the role of new technologies like synthesized biomaterials and applications of HPLC techniques Discusses the integration of machine learning with nonlinear optical microscopy to enhance the accuracy of disease diagnoses Presents the latest developments in biomaterials that are revolutionizing tissue engineering

Innovations in Ultra-Wideband Technologies Albert Sabban, 2021-07-28 This book discusses innovation in ultra-wideband (UWB) technologies and systems. Divided into four sections, the volume introduces UWB technologies and RF modules, examines applications of these systems in areas such as medicine and sports, and discusses the importance of an accurate design of microwave modules and antennas.

From Additive Manufacturing to 3D/4D Printing 3 Jean-Claude André, 2018-03-07 With a turnover of some 5-15 billion € / year, the additive manufacturing has industrial niches bearers thanks to processes and materials more and more optimized. While some niches still exist on the application of additive techniques in traditional fields (from jewelry to food for example), several trends emerge, using new concepts: collective production, realization of objects at once (without addition Of material), micro-fluidic, 4D printing exploiting programmable materials and materials, bio-printing, etc. There are both opportunities for new markets, promises not envisaged less than 10 years ago, but difficulties in reaching them.

Digital Manufacturing Chandrakant D. Patel, Chun-Hsien Chen, 2022-07-06 Digital Manufacturing: The Industrialization of Art to Part 3D Additive Printing explains everything needed to understand how recent advances in materials science, manufacturing engineering and digital design have integrated to create exciting new capabilities. Sections discuss relevant fundamentals in mechanical engineering and materials science and complex and practical topics in additive manufacturing, such as part manufacturing, all in the context of the modern digital design environment. Being successful in today's art to part cyber-physical manufacturing age requires a strong grounding in science and engineering fundamentals as well as knowledge of the latest techniques, all of which readers will find here. Every chapter is developed by leading specialists and based on first-hand experiences, capturing the essential knowledge readers need to solve problems related to digital manufacturing. - Helps produce the T-shaped engineers needed in today's digital manufacturing age by providing carefully

selected foundational information from a range of disciplines - Covers every step in the additive manufacturing process, from product design through inspection - Addresses business models and socioeconomic trends related to cyber physical manufacturing, along with technical aspects

Emerging Frontiers in the Drug Formulation Design, 2025-07-16 Drug formulation design is essential for developing a novel delivery system with desired specifications. The chapters on liposomes, nanocrystals, microneedles, and smart drug delivery systems will explain the need for these delivery systems. The optimization of the formulation plays a crucial role in achieving the desired characteristics for the dosage form, which will influence the presence of the desired drug concentration at the site of action and the establishment of therapeutic activity. Further, a chapter focusing on the dissolution mechanics and release kinetics offers a deeper understanding of the drug interaction at the molecular level. Comprehensively, referring to this book will provide insight into emerging technologies that are shaping the future of medicine.

Nanobiotechnology Tridib Kumar Bhowmick, Kaylan Gayen, Sunil K. Maity, 2024-05-30 This book covers topics related to drug delivery, biomaterials, drug design, formulation development, nanoscience, and nanotechnology. It describes the fundamental concepts in nanotechnology and their different applications in biotechnology to solve engineering challenges and generate new areas of technological development. *Nanobiotechnology: Applications of Nanomaterials in Biotechnology, Medicine, and Healthcare* covers vast application areas that include medical science, material science, pharmaceutical science, and environmental science. Section 1 presents recent research updates on the different nanomaterials, which are promising in different medical and biotechnological applications. Applications of nanomaterials as bone replacement orthopedic implants have revolutionized the treatment of orthopedic surgery. Nanostructured polymeric materials have gained immense research attention as therapeutic carriers for the precise delivery of drugs at targeted sites. Nanocellulose is recognized as a promising green nanomaterial due to its renewability and abundance in nature. Scientific topics on the most recent scientific and technological advances and applications of different nanostructured materials are presented in this section. Section 2 focuses on the novel synthesis methods that are used extensively and are promising for large-scale production of inorganic and nanostructured materials. Section 3 covers the applications of nanotools in the treatment of different diseases, including cancers and genetic diseases. The increasing use of nanotechnology will bring changes in the manufacturing processes of nanomaterials. The applications of nanomaterials in the field of medical imaging and molecular detection are presented in section 4. This book will be useful for students, researchers, scientists, academicians, and industrial manufacturers to understand the importance and applicability of nanomaterials in the field of biotechnology and medical science.

Handbook of Human-Machine Systems Giancarlo Fortino, David Kaber, Andreas Nürnberger, David

Mendonça,2023-07-04 Handbook of Human-Machine Systems Insightful and cutting-edge discussions of recent developments in human-machine systems In Handbook of Human-Machine Systems, a team of distinguished researchers delivers a comprehensive exploration of human-machine systems (HMS) research and development from a variety of illuminating perspectives. The book offers a big picture look at state-of-the-art research and technology in the area of HMS. Contributing authors cover Brain-Machine Interfaces and Systems, including assistive technologies like devices used to improve locomotion. They also discuss advances in the scientific and engineering foundations of Collaborative Intelligent Systems and Applications. Companion technology, which combines trans-disciplinary research in fields like computer science, AI, and cognitive science, is explored alongside the applications of human cognition in intelligent and artificially intelligent system designs, human factors engineering, and various aspects of interactive and wearable computers and systems. The book also includes: A thorough introduction to human-machine systems via the use of emblematic use cases, as well as discussions of potential future research challenges Comprehensive explorations of hybrid technologies, which focus on transversal aspects of human-machine systems Practical discussions of human-machine cooperation principles and methods for the design and evaluation of a brain-computer interface Perfect for academic and technical researchers with an interest in HMS, Handbook of Human-Machine Systems will also earn a place in the libraries of technical professionals practicing in areas including computer science, artificial intelligence, cognitive science, engineering, psychology, and neurobiology.

Nature-Inspired Methods for Smart Healthcare Systems and Medical Data Ahmed M. Anter,Mohamed Elhoseny,Anuradha D. Thakare,2023-12-01 This book aims to gather high-quality research papers on developing theories, frameworks, architectures, and algorithms for solving complex challenges in smart healthcare applications for real industry use. It explores the recent theoretical and practical applications of metaheuristics and optimization in various smart healthcare contexts. The book also discusses the capability of optimization techniques to obtain optimal parameters in ML and DL technologies. It provides an open platform for academics and engineers to share their unique ideas and investigate the potential convergence of existing systems and advanced metaheuristic algorithms. The book's outcome will enable decision-makers and practitioners to select suitable optimization approaches for scheduling patients in crowded environments with minimized human errors. The healthcare system aims to improve the lives of disabled, elderly, sick individuals, and children. IoT-based systems simplify decision-making and task automation, offering an automated foundation. Nature-inspired metaheuristics and mining algorithms are crucial for healthcare applications, reducing costs, increasing efficiency, enabling accurate data analysis, and enhancing patient care. Metaheuristics improve algorithm performance and address challenges in data mining and ML, making them essential in healthcare research. Real-time IoT-based healthcare systems can be modeled using an IoT-based metaheuristic approach to generate optimal solutions. Metaheuristics are powerful technologies for optimization problems in healthcare systems. They balance exact methods, which guarantee optimal solutions but require

significant computational resources, with fast but low-quality greedy methods. Metaheuristic algorithms find better solutions while minimizing computational time. The scientific community is increasingly interested in metaheuristics, incorporating techniques from AI, operations research, and soft computing. New metaheuristics offer efficient ways to address optimization problems and tackle unsolved challenges. They can be parameterized to control performance and adjust the trade-off between solution quality and resource utilization. Metaheuristics manage the trade-off between performance and solution quality, making them highly applicable to real-time applications with pragmatic objectives.

Brain and Human Body Modeling 2020 Sergey N. Makarov, 2021 The 41st Annual International Conference of the IEEE EMBS, took place between July 23 and 27, 2019, in Berlin, Germany. The focus was on Biomedical engineering ranging from wellness to intensive care. This conference provided an opportunity for researchers from academia and industry to discuss a variety of topics relevant to EMBS and hosted the 4th Annual Invited Session on Computational Human Models. At this session, a bevy of research related to the development of human phantoms was presented, together with a substantial variety of practical applications explored through simulation.

Magnetic Sensors and Actuators in Medicine Horia Chiriac, Nicoleta Lupu, 2023-07-15 Magnetic Sensors and Actuators in Medicine: Materials, Devices, and Applications provides an overview of the various sensors and actuators, their characteristics, role in the development of medical applications, the medical problems they solve, and future directions. The book brings together recent advances in the physics, chemistry and engineering of magnetic materials related to sensors and actuators that improve their functions in medical applications. The book describes the main applications of magnetic sensors and actuators, starting from the common and emerging magnetic materials, their principles of operation, the medical problems that they are used to address, and the latest achievements in the field. - Reviews a wide range of magnetic sensors and actuators employed in medical applications such as diagnosis, surgery and therapy - Describes magnetic material-based sensors and actuators, including their operation principles, properties and optimization for specific applications - Includes examples of recent advances, such as emerging magnetic materials, magnetic nanowires, nanorods and/or nanotubes

Innovative Product Development by Additive Manufacturing 2021 Roland Lachmayer, Behrend Bode, Stefan Kaierle, 2022-11-12 The book consists of a collection of papers from a corresponding conference regarding additive manufacturing. The yearly conference used to be held in German under the title: "Konstruktion für die Additive Fertigung." The topics are: • Design and optimization • Simulation, validation and quality assurance • Specifications, potentials and solutions/div

CdTe and CdZnTe Materials Kris Iniewski, 2024-08-21 This book provides readers with a good overview of some of most recent advances in the field of CdTe and CdZnTe detector technology for medical imaging, industrial testing and security scanning, especially as it pertains to new applications. There will be a good mixture of general chapters in both technology

and applications in the X-ray testing. The book will have an in-depth review of the research topics from leading world specialists in the field. The conversion of the X-ray and gamma-ray signal into analogue/digital value will be covered in some chapters. Some would also provide a review of CMOS chips for CdTe and CdZnTe image sensors. This book serves as an excellent reference for people already working in the field as well as for people wishing to enter it.

3D Printing in Biotechnology Nandita Dasgupta, Vineeta Singh, Shivendu Ranjan, Taijshee Mishra, Bhartendu Nath Mishra, 2023-09-23 *3D Printing in Biotechnology: Current Technologies and Applications* explains the basic designs and recent progress in the application of 3D printing within various biotechnology fields. The book is a compilation of the basic fundamentals, designs, current applications, and future considerations related to this emerging technology, and summarizes the promising application of 3D bioprinting. Chapters contain detailed state-of-the-art knowledge to assist in the development and design of 3D printers, with applications in the medical, food, and environmental fields. This book will appeal to researchers and students from different disciplines, including materials science and technology, food, agriculture, and various biomedical fields. The content includes industrial applications and fills the gap between the research conducted in the laboratory and practical applications in related industries. - Offers an introduction to the emerging technologies and sectors in the field of 3D printing - Discusses the development of sustainable materials and bio-inks - Provides a guide for medical professionals and practitioners to incorporate current 3D printing technology into their medical practice - Bridges the knowledge gap for current designs used in 3D printing technology for designing an efficient and innovative 3D printer - Previews the technological basis for new farming practices and food engineering concepts utilizing 3D techniques

Digital Twins for Sustainable Healthcare in the Metaverse R., Rajmohan, Chowdhury, Subrata, Kardy, Seifedine, Damaševičius, Robertas, Govindaraj, Ramya, 2025-02-04 Digital transformation has brought about both unprecedented opportunities and complex challenges in the landscape of healthcare. As healthcare systems strive to meet the growing demands of an aging population and rising healthcare costs, they are confronted with issues of inefficiency, fragmented care delivery, and limited access to quality services. Moreover, the global COVID-19 pandemic has further exacerbated these challenges, highlighting the urgent need for innovative solutions to enhance healthcare delivery and sustainability. *Digital Twins for Sustainable Healthcare in the Metaverse* emerges as a solution to these pressing challenges, offering a forward-thinking approach to revolutionize healthcare delivery. By exploring the integration of digital twin (DT) technology with the consumer health metaverse (MCH), alongside artificial intelligence (AI), machine learning (ML), and other cutting-edge innovations, this book provides a roadmap for transforming healthcare systems and processes. From enhancing data management and visualization techniques to leveraging blockchain technology for data privacy, each chapter offers actionable insights to address the complexities of modern healthcare delivery.

Artificial Intelligence in Tissue and Organ Regeneration Chandra P. Sharma, Thomas Chandy, Vinoy

Thomas,2023-08-18 Artificial Intelligence in Tissue and Organ Regeneration discusses the role of artificial intelligence as a highly sought-after technology in the area of organ and tissue regeneration. Certain groups have made significant progress in mass producing mini organs and organoids from stem cells utilizing such techniques. As time goes on, there will be a need to improve these procedures, protocols, regulatory guidelines, and their clinical implications. - Integrates existing literature in a highly interdisciplinary area - Presents comprehensive current and future perspectives, combining artificial intelligence and machine learning with organ and tissue regeneration - Provides new and emerging technology that is useful in healthcare and the medical field

Handbook of Research on New Investigations in Artificial Life, AI, and Machine Learning Habib, Maki K.,2022-02-25 As technology spreads globally, researchers and scientists continue to develop and study the strategy behind creating artificial life. This research field is ever expanding, and it is essential to stay current in the contemporary trends in artificial life, artificial intelligence, and machine learning. This an important topic for researchers and scientists in the field as well as industry leaders who may adapt this technology. The Handbook of Research on New Investigations in Artificial Life, AI, and Machine Learning provides concepts, theories, systems, technologies, and procedures that exhibit properties, phenomena, or abilities of any living system or human. This major reference work includes the most up-to-date research on techniques and technologies supporting AI and machine learning. Covering topics such as behavior classification, quality control, and smart medical devices, it serves as an essential resource for graduate students, academicians, stakeholders, practitioners, and researchers and scientists studying artificial life, cognition, AI, biological inspiration, machine learning, and more.

Magnetic Nanoparticles in Human Health and Medicine Costica Caizer,Mahendra Rai,2021-11-22 Magnetic Nanoparticles in Human Health and Medicine Explores the application of magnetic nanoparticles in drug delivery, magnetic resonance imaging, and alternative cancer therapy Magnetic Nanoparticles in Human Health and Medicine addresses recent progress in improving diagnosis by magnetic resonance imaging (MRI) and using non-invasive and non-toxic magnetic nanoparticles for targeted drug delivery and magnetic hyperthermia. Focusing on cancer diagnosis and alternative therapy, the book covers both fundamental principles and advanced theoretical and experimental research on the magnetic properties, biocompatibilization, biofunctionalization, and application of magnetic nanoparticles in nanobiotechnology and nanomedicine. Chapters written by a panel of international specialists in the field of magnetic nanoparticles and their applications in biomedicine cover magnetic hyperthermia (MHT), MRI contrast agents, biomedical imaging, modeling and simulation, nanobiotechnology, toxicity issues, and more. Readers are provided with accurate information on the use of magnetic nanoparticles in diagnosis, drug delivery, and alternative cancer therapeutics—featuring discussion of current problems, proposed solutions, and future research directions. Topics include current applications of magnetic iron oxide

nanoparticles in nanomedicine and alternative cancer therapy: drug delivery, magnetic resonance imaging, superparamagnetic hyperthermia as alternative cancer therapy, magnetic hyperthermia in clinical trials, and simulating the physics of magnetic particle heating for cancer therapy. This comprehensive volume: Covers both general research on magnetic nanoparticles in medicine and specific applications in cancer therapeutics Discusses the use of magnetic nanoparticles in alternative cancer therapy by magnetic and superparamagnetic hyperthermia Explores targeted medication delivery using magnetic nanoparticles as a future replacement of conventional techniques Reviews the use of MRI with magnetic nanoparticles to increase the diagnostic accuracy of medical imaging Magnetic Nanoparticles in Human Health and Medicine is a valuable resource for researchers in the fields of nanomagnetism, magnetic nanoparticles, nanobiomaterials, nanobioengineering, biopharmaceuticals nanobiotechnologies, nanomedicine, and biopharmaceuticals, particularly those focused on alternative cancer diagnosis and therapeutics.

Medical Imaging and Computer-Aided Diagnosis Ruidan Su, Yudong Zhang, Han Liu, Alejandro F Frangi, 2023-12-19 This book covers virtually all aspects of image formation in medical imaging, including systems based on ionizing radiation (x-rays, gamma rays) and non-ionizing techniques (ultrasound, optical, thermal, magnetic resonance, and magnetic particle imaging) alike. In addition, it discusses the development and application of computer-aided detection and diagnosis (CAD) systems in medical imaging. Given its coverage, the book provides both a forum and valuable resource for researchers involved in image formation, experimental methods, image performance, segmentation, pattern recognition, feature extraction, classifier design, machine learning / deep learning, radiomics, CAD workstation design, human-computer interaction, databases, and performance evaluation.

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