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**Bioengineering and Biomedical Signal and Image Processing First International Conference, BIOMESIP 2021, Meloneras, Gran Canaria, Spain, July 19-21, 2021, Proceedings** Springer Nature This book constitutes the refereed proceedings of the First International Conference on Bioengineering and Biomedical Signal and Image Processing, BIOMESIP 2021, held in Meloneras, Gran Canaria, Spain, in July 2021. The 41 full and 5 short papers were carefully reviewed and selected from 121 submissions. The papers are grouped in topical issues on biomedical applications in molecular, structural, and functional imaging; biomedical computing; biomedical signal measurement, acquisition and processing; computerized medical imaging and graphics; disease control and diagnosis; neuroimaging; pattern recognition and machine learning for biosignal data; personalized medicine; and COVID-19. **A Concise History of Sunnis and Shi'is** Georgetown University Press "First published 2017 in Great Britain by Saqi Books"--Copyright page. **How Tobacco Smoke Causes Disease The Biology and Behavioral Basis for Smoking-attributable Disease : a Report of the Surgeon General** U.S. Government Printing Office This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products. **Political Sociology Language of the Snakes Prakrit, Sanskrit, and the Language Order of Premodern India** Univ of California Press At publication date, a free ebook version of this title will be available through Luminos, University of California Press's Open Access publishing program. Visit [www.luminosoa.org](http://www.luminosoa.org) to learn more. Language of the Snakes traces the history of the Prakrit language as a literary phenomenon, starting from its cultivation in courts of the Deccan in the first centuries of the common era. Although little studied today, Prakrit was an important vector of the *kavya* movement and once joined Sanskrit at the apex of classical Indian literary culture. The opposition between Prakrit and Sanskrit was at the center of an enduring "language order" in India, a set of ways of thinking about, naming, classifying, representing, and ultimately using languages. As a language of classical literature that nevertheless retained its associations with more demotic language practices, Prakrit both embodies major cultural tensions—between high and low, transregional and regional, cosmopolitan and vernacular—and provides a unique perspective onto the history of literature and culture in South Asia. **The Blue Between Sky and Water** Bloomsbury Publishing It is 1947, and Beit Daras, a rural Palestinian village, is home to the Baraka family – oldest daughter Nazmiyah, brother Mamdouh, beautiful, dreamy Mariam and their widowed mother. When Israeli forces descend, sending the village up in flames, the family must take the long road to Gaza, in a walk that will test them to their limits. Sixty years later, in America, Mamdouh's granddaughter Nur falls in love with a doctor. Following him to his work in Gaza, she meets Alwan, who will help Nur discover the ties of kinship that transcend distance – and even death. Told with raw humanity, *The Blue Between Sky and Water* is a lyrical, devastatingly beautiful story of a family's relocation, separation, survival and love. **Measurement, Analysis and Remediation of Environmental Pollutants** Springer Nature This book discusses contamination of water, air, and soil media. The book covers health effects of such contamination and discusses remedial measures to improve the situation. Contributions by experts provide a comprehensive discussion on the latest developments in the detection and analysis of contaminants, enabling researchers to understand the evolution of these pollutants in real time and develop more accurate source apportionment of these pollutants. The contents of this book will be of interest to researchers, professionals, and policy makers alike. **Know Your State West Bengal** Arihant Publications India limited An editorial team of highly skilled professionals at Arihant, works hand in glove to ensure that the students receive the best and accurate content through our books. From inception till the book comes out from print, the whole team comprising of authors, editors, proofreaders and various other involved in shaping the book put in their best efforts, knowledge and experience to produce the rigorous content the students receive. Keeping in mind the specific requirements of the students and various examinations, the carefully designed exam oriented and exam ready content comes out only after intensive research and analysis. The experts have adopted whole new style of presenting the content which is easily understandable, leaving behind the old traditional methods which once used to be the most effective. They have been developing the latest content & updates as per the needs and requirements of the students making our books a hallmark for quality and reliability for the past 15 years. **Misconceptions in Chemistry Addressing Perceptions in Chemical Education** Springer Science & Business Media Over the last decades several researchers discovered that children, pupils and even young adults develop their own understanding of "how nature really works". These pre-concepts concerning combustion, gases or conservation of mass are brought into lectures and teachers have to diagnose and to reflect on them for better instruction. In addition, there are 'school-made misconceptions' concerning equilibrium, acid-base or redox reactions which originate from inappropriate curriculum and instruction materials. The primary goal of this monograph is to help teachers at universities, colleges and schools to diagnose and 'cure' the pre-concepts. In case of the school-made misconceptions it will help to prevent them from the very beginning through reflective teaching. The volume includes detailed descriptions of class-room experiments and structural models to cure and to prevent these misconceptions. **A Textbook of Engineering Physics (For 1st & 2nd Semester of M.G. University, Kerala)** S. Chand Publishing Lasers And Holography |Nano Technology & Super Conductivity| Crystallography & Moder Engineering |Ultrasonics | Fibre Optics Applications Of Optical Fibress **Satyendra Nath Bose** New Delhi : National Book Trust, India Biography of the Indian physicist Satyendranath Bose, 1894-1974. **Recent Advances in Mechanical Engineering Select Proceedings of RAME 2020** Springer Nature This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbomachinery and alternative fuels, machinability and formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields. **Handbook Of Pattern Recognition And Computer Vision (2nd Edition)** World Scientific The very significant advances in computer vision and pattern recognition and their applications in the last few years reflect the strong and growing interest in the field as well as the many opportunities and challenges it offers. The second edition of this handbook represents both the latest progress and updated knowledge in this dynamic field. The applications and technological issues are particularly emphasized in this edition to reflect the wide applicability of the field in many practical problems. To keep the book in a single volume, it is not possible to retain all chapters of the first edition. However, the chapters of both editions are well written for permanent reference. This indispensable handbook will continue to serve as an authoritative and comprehensive guide in the field. **Photovoltaic/Thermal (PV/T) Systems Principles, Design, and Applications** Springer Nature This book provides the most up-to-date information on hybrid solar cell and solar thermal collectors, which are commonly referred to as Photovoltaic/Thermal (PV/T) systems. PV/T systems convert solar radiation into thermal and electrical energy to produce electricity, utilize more of the solar spectrum, and save space by combining the two structures to cover lesser area than two systems separately. Research in this area is growing rapidly and is highlighted within this book. The most current methods and techniques available to aid in overall efficiency, reduce cost and improve modeling and system maintenance are all covered. In-depth chapters present the background and basic principles of the technology along with a detailed review of the most current literature. Moreover, the book details design criteria for PV/T systems including residential, commercial, and industrial applications. Provides an objective and decisive source for the supporters of green and renewable source of energy Discusses and evaluates state-of-the-art PV/T system designs Proposes and recommends potential designs for future research on this topic **Deep Learning and Convolutional Neural Networks for Medical Image Computing Precision Medicine, High Performance and Large-Scale Datasets** Springer This book presents a detailed review of the state of the art in deep learning approaches for semantic object detection and segmentation in medical image computing, and large-scale radiology database mining. A particular focus is placed on the application of convolutional neural networks, with the theory supported by practical examples. Features: highlights how the use of deep neural networks can address new questions and protocols, as well as improve upon existing challenges in medical image computing; discusses the insightful research experience of Dr. Ronald M. Summers; presents a comprehensive review of the latest research and literature; describes a range of different methods that make use of deep learning for object or landmark detection tasks in 2D and 3D medical imaging; examines a varied selection of techniques for semantic segmentation using deep learning principles in medical imaging; introduces a novel approach to interleaved text and image deep mining on a large-scale radiology image database. **Proceedings of International Conference on Frontiers in Computing and Systems COMSYS 2020** Springer Nature This book gathers outstanding research papers presented at the International Conference on Frontiers in Computing and Systems (COMSYS 2020), held on January 13–15, 2019 at Jalpaiguri Government Engineering College, West Bengal, India and jointly organized by the Department of Computer Science & Engineering and Department of Electronics & Communication Engineering. The book presents the latest research and results in various fields of machine learning, computational intelligence, VLSI, networks and systems, computational biology, and security, making it a rich source of reference material for academia and industry alike. **Advances in Communication and Computational Technology Select Proceedings of ICACCT 2019** Springer Nature This book presents high-quality peer-reviewed papers from the International Conference on Advanced Communication and Computational Technology (ICACCT) 2019 held at the National Institute of Technology, Kurukshetra, India. The contents are broadly divided into four parts: (i) Advanced Computing, (ii) Communication and Networking, (iii) VLSI and Embedded Systems, and (iv) Optimization Techniques. The major focus is on emerging computing technologies and their applications in the domain of communication and networking. The book will prove useful for engineers and researchers working on physical, data link and transport layers of communication protocols. Also, this will be useful for industry professionals interested in manufacturing of communication devices, modems, routers etc. with enhanced computational and data handling capacities. **The Physics of Semiconductor Devices Proceedings of IWPSD 2017** Springer This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and

other 2D materials and organic semiconductors. **The Physics of Graphene** Cambridge University Press Leading graphene research theorist Mikhail I. Katsnelson presents the most up-to-date basic concepts of graphene physics in this fully revised textbook. This is an important graduate textbook for nanoscience, nanotechnology and condensed matter and an excellent introduction to the fast-growing field of graphene science. **A Concise History of the Arabs** Saqi The key to understanding the Arab world - today and in the future - lies in unlocking its past. John McHugo unfolds centuries of political, social and intellectual development, from the Roman Empire right up to the present day. Taking the reader beyond the headlines, McHugo presents a series of turning points in Arab history: the mission of the Prophet Muhammad, the expansion of Islam, the conflicts of the medieval and modern ages, the struggles against foreign domination, the rise of Islamism, and the end of the rule of dictators. Accessible and penetrating, this concise history reveals how the Arab world has come to assume its present form and illuminates the choices that lie ahead in the wake of the Arab Spring. 'A lucid and highly readable history of the Arab peoples up to the present day. John McHugo has managed to show, with compassion, a good deal of humour and unerring historical judgment, the power of the ideas and the forces that have shaped what we now think of as the Arab world. In doing so, McHugo has provided a way of understanding this complex and ongoing story that will enlighten all who read it.' Charles Tripp, author of *The Power and the People: Paths of Resistance in the Middle East* 'This is a concise historical survey of Arab history from the early Islamic period to our day, including Western-Arab and Western-Muslim encounters ... A well-written, original and stimulating introduction to the Arab world.' Gilbert Achcar, author of *The Arabs and the Holocaust: The Arab-Israeli War of Narratives* 'This concise, brilliant and erudite book is the product of wide reading, hard thinking and years of direct experience of the Middle East. The author, an international lawyer and Arabist, has managed to throw fresh light on 1,400 years of Arab history from the Prophet Muhammad to the Arab Spring. There are lively and informative insights on almost every page.' Patrick Seale, author of *Asad: The Struggle for the Middle East* 'Vivid and engaging ... invaluable for those seeking to understand the depth and complexity of the contemporary issues in the Arab world' Joy Gordon, author of *Invisible War: The United States and the Iraq Sanctions* 'Even those who are familiar with the story of the Arabs will find this new history thrilling and poignant, woven with a layered texture of knowledge and empathy that deftly stitches familiar figures into the narrative in a fresh way. It is no small feat to compress the fourteen centuries from the dawn of Islam to the new Arab Awakening into such an effortless read.' David Gardner, International Affairs Editor, Financial Times, and author of *Last Chance: the Middle East in the Balance* **Emerging Trends in Electrical, Communications, and Information Technologies Proceedings of ICECIT-2018** Springer Nature This book includes original, peer-reviewed research from the 3rd International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT 2018), held at Srinivasa Ramanujan Institute of Technology, Ananthapuramu, Andhra Pradesh, India in December 2018. It covers the latest research trends and developments in the areas of Electrical Engineering, Electronic and Communication Engineering, and Computer Science and Information. **Topics in Igneous Petrology** Springer Science & Business Media The second half of the past century witnessed a remarkable paradigm shift in approach to the understanding of igneous rocks. Global literature records a change from a classical petrographic approach to emphasis on mineral chemistry, trace element characteristics, tectonic setting, phase relations, and theoretical simulation of magma generation and evolution processes. This book contains contributions by international experts in different fields of igneous petrology and presents an overview of recent developments. This book is dedicated to the late Dr Mihir K. Bose, former professor of the Department of Geology, Presidency College, Calcutta, India, who actively participated in the development of this new global view of igneous petrology. **Transport of Fluids in Nanoporous Materials** MDPI This book is a printed edition of the Special Issue "Transport of Fluids in Nanoporous Materials" that was published in *Processes* **Lab-on-a-Chip Devices and Micro-Total Analysis Systems A Practical Guide** Springer This book covers all the steps in order to fabricate a lab-on-a-chip device starting from the idea, the design, simulation, fabrication and final evaluation. Additionally, it includes basic theory on microfluidics essential to understand how fluids behave at such reduced scale. Examples of successful histories of lab-on-a-chip systems that made an impact in fields like biomedicine and life sciences are also provided. This book also: · Provides readers with a unique approach and toolset for lab-on-a-chip development in terms of materials, fabrication techniques, and components · Discusses novel materials and techniques, such as paper-based devices and synthesis of chemical compounds on-chip · Covers the four key aspects of development: basic theory, design, fabrication, and testing · Provides readers with a comprehensive list of the most important journals, blogs, forums, and conferences where microfluidics and lab-on-a-chip news, methods, techniques and challenges are presented and discussed, as well as a list of companies providing design and simulation support, components, and/or developing lab-on-a-chip and microfluidic devices. **Recent Advances in Intelligent Information Systems and Applied Mathematics** Springer Nature This book describes the latest advances in intelligent techniques such as fuzzy logic, neural networks, and optimization algorithms, and their relevance in building intelligent information systems in combination with applied mathematics. The authors also outline the applications of these systems in areas like intelligent control and robotics, pattern recognition, medical diagnosis, time series prediction, and optimization of complex problems. By sharing fresh ideas and identifying new targets/problems it offers young researchers and students new directions for their future research. The book is intended for readers from mathematics and computer science, in particular professors and students working on theory and applications of intelligent systems for real-world applications. **A Dictionary of Media and Communication** Oxford University Press This authoritative and up-to-date A-Z covers all aspects of interpersonal, mass, and networked communication, including digital and mobile media, advertising, journalism, and nonverbal communication. This new edition is particularly focused on expanding coverage of social media terms, to reflect its increasing prominence to media and communication studies as a whole. More than 2,000 entries have been revised, and over 500 new terms have been added to reflect current theoretical terminology, including concepts such as artificial intelligence, cisgender, fake news, hive mind, use theory, and wikiality. The dictionary also bridges the gap between theory and practice, and contains many technical terms that are relevant to the communication industry, including dialogue editing, news aggregator, and primary colour correction. The text is complemented by biographical notes and extensively cross-referenced, while web links supplement the entries. It is an indispensable guide for undergraduate students of media and communication studies, and also for those taking related subjects such as television studies, video production, communication design, visual communication, marketing communications, semiotics, and cultural studies. **Emerging Technologies in Data Mining and Information Security Proceedings of IEMIS 2020, Volume 3** Springer Nature This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) held at the University of Engineering & Management, Kolkata, India, during July 2020. The book is organized in three volumes and includes high-quality research work by academicians and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, and case studies related to all the areas of data mining, machine learning, Internet of things (IoT), and information security. **Handbook of Nanomaterials Properties** Springer Science & Business Media Nanomaterials attract tremendous attention in recent researches. Although extensive research has been done in this field it still lacks a comprehensive reference work that presents data on properties of different Nanomaterials. This Handbook of Nanomaterials Properties will be the first single reference work that brings together the various properties with wide breadth and scope. **Civics Today Citizenship, Economics, & You** McGraw-Hill/Glencoe A civics program building the next generation of active Americans *Civics Today: Citizenship, Economics, and You* meets the content standards for civics and government as outlined by the National Standards for Civics and Government. Many young citizens are completing their education with little or no sense of civic responsibility. This program teaches the knowledge and skills needed to be an effective, active citizen. It also encourages an appreciation for the American political system and fosters a willingness to take part in American democracy. Two economics units provide an understanding of the interrelationship between democracy and the free enterprise system. **Advanced Machine Learning Technologies and Applications Second International Conference, AMLTA 2014, Cairo, Egypt, November 28-30, 2014. Proceedings** Springer This book constitutes the refereed proceedings of the Second International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2014, held in Cairo, Egypt, in November 2014. The 49 full papers presented were carefully reviewed and selected from 101 initial submissions. The papers are organized in topical sections on machine learning in Arabic text recognition and assistive technology; recommendation systems for cloud services; machine learning in watermarking/authentication and virtual machines; features extraction and classification; rough/fuzzy sets and applications; fuzzy multi-criteria decision making; Web-based application and case-based reasoning construction; social networks and big data sets. **Antibiotic Resistance Mechanisms and New Antimicrobial Approaches** Academic Press Antibiotic Resistance: Mechanisms and New Antimicrobial Approaches discusses up-to-date knowledge in mechanisms of antibiotic resistance and all recent advances in fighting microbial resistance such as the applications of nanotechnology, plant products, bacteriophages, marine products, algae, insect-derived products, and other alternative methods that can be applied to fight bacterial infections. Understanding fundamental mechanisms of antibiotic resistance is a key step in the discovery of effective methods to cope with resistance. This book also discusses methods used to fight antibiotic-resistant infection based on a deep understanding of the mechanisms involved in the development of the resistance. Discusses methods used to fight antibiotic-resistant infection based on a deep understanding of mechanisms involved in the development of the resistance Provides information on modern methods used to fight antibiotic resistance Covers a wide range of alternative methods to fight bacterial resistance, offering the most complete information available Discusses both newly emerging trends and traditionally applied methods to fight antibiotic resistant infections in light of recent scientific developments Offers the most up-to-date information in fighting antibiotic resistance Includes involvement of contributors all across the world, presenting questions of interest to readers of both developed and developing countries **Swift Heavy Ions for Materials Engineering and Nanostructuring** Springer Science & Business Media Ion beams have been used for decades for characterizing and analyzing materials. Now energetic ion beams are providing ways to modify the materials in unprecedented ways. This book highlights the emergence of high-energy swift heavy ions as a tool for tailoring the properties of materials with nanoscale structures. Swift heavy ions interact with materials by exciting/ionizing electrons without directly moving the atoms. This opens a new horizon towards the 'so-called' soft engineering. The book discusses the ion beam technology emerging from the non-equilibrium conditions and emphasizes the power of controlled irradiation to tailor the properties of various types of materials for specific needs. **Advances in Computational Intelligence, Security and Internet of Things Second International Conference, ICCISIoT 2019, Agartala, India, December 13-14, 2019, Proceedings** Springer Nature This volume constitutes the refereed proceedings of the Second International Conference on Computational Intelligence, Security and Internet of Things, ICCISIoT 2019, held in Agartala, India, in December 2019. The 31 full papers and 6 short papers were carefully reviewed and selected from 153 submissions. The papers are organised according to the following topics: Computational Intelligence, Security, Internet of Things. Papers from the extended track are also presented in the volume. **Advances in Remote Sensing and Geo Informatics Applications Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018** Springer This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book compiles a wide range of topics addressing various issues by experienced researchers mainly from research institutes in the Mediterranean, MENA region, North America and Asia. Remote sensing observations can close gaps in information scarcity by complementing ground-based sparse data. Spatial, spectral, temporal and radiometric characteristics of satellites sensors are most suitable for features identification. The local to global nature and broad spatial scale of remote sensing with the wide range of spectral coverage are essential characteristics, which make satellites an ideal platform for mapping, observation, monitoring, assessing and providing necessary mitigation measures and control for different related Earth's systems processes. Main topics in this book include: Geo-informatics Applications, Land Use / Land Cover Mapping and Change Detection, Emerging Remote Sensing Applications, Rock Formations / Soil Lithology Mapping, Vegetation Mapping Impact and Assessment, Natural Hazards Mapping and Assessment, Ground Water Mapping and Assessment, Coastal Management of Marine Environment and Atmospheric Sensing. **Inventory of Sanskrit Scholars Advances in Production Management Systems. The Path to Digital Transformation and Innovation of Production Management Systems IFIP WG 5.7 International Conference, APMS 2020, Novi Sad, Serbia, August 30 - September 3, 2020, Proceedings, Part I** Springer Nature The two-volume set IFIP AICT 591 and 592 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2020, held in Novi Sad, Serbia, in August/September 2020. The 164 papers presented were carefully reviewed and selected from 199 submissions. They discuss globally pressing issues in smart manufacturing, operations management, supply chain management, and Industry 4.0. The papers are organized in the following topical sections: Part I: advanced modelling, simulation and data analytics in production and supply networks; advanced, digital and smart manufacturing; digital and virtual quality management systems; cloud-manufacturing; cyber-physical production systems and digital twins; IIOT interoperability; supply chain planning and optimization; digital and smart supply chain management; intelligent logistics networks management; artificial intelligence and blockchain technologies in logistics and DSN; novel production planning and control approaches; machine learning and artificial intelligence; connected, smart factories of the future; manufacturing systems engineering: agile, flexible, reconfigurable; digital assistance systems: augmented reality and virtual reality; circular products design and engineering; circular, green, sustainable manufacturing; environmental and social lifecycle assessments; socio-

cultural aspects in production systems; data-driven manufacturing and services operations management; product-service systems in DSN; and collaborative design and engineering Part II: the Operator 4.0: new physical and cognitive evolutionary paths; digital transformation approaches in production management; digital transformation for more sustainable supply chains; data-driven applications in smart manufacturing and logistics systems; data-driven services: characteristics, trends and applications; the future of lean thinking and practice; digital lean manufacturing and its emerging practices; new reconfigurable, flexible or agile production systems in the era of industry 4.0; operations management in engineer-to-order manufacturing; production management in food supply chains; gastronomic service system design; product and asset life cycle management in the circular economy; and production ramp-up strategies for product **A Textbook of Engineering Physics** S. Chand Publishing A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages. **Data Management, Analytics and Innovation Proceedings of ICDMAI 2020, Volume 2** Springer Nature This book presents the latest findings in the areas of data management and smart computing, big data management, artificial intelligence and data analytics, along with advances in network technologies. Gathering peer-reviewed research papers presented at the Fourth International Conference on Data Management, Analytics and Innovation (ICDMAI 2020), held on 17–19 January 2020 at the United Services Institute (USI), New Delhi, India, it addresses cutting-edge topics and discusses challenges and solutions for future development. Featuring original, unpublished contributions by respected experts from around the globe, the book is mainly intended for a professional audience of researchers and practitioners in academia and industry. **NETWORK THEORY ANALYSIS AND SYNTHESIS** PHI Learning Pvt. Ltd. This book offers an excellent and practically oriented introduction to the basic concepts of modern circuit theory. It builds a thorough and rigorous understanding of the analysis techniques of electric networks, and also explains the essential procedures involved in the synthesis of passive networks. Written specifically to meet the needs of undergraduate students of electrical and electronics engineering, electronics and communication engineering, instrumentation and control engineering, and computer science and engineering, the book provides modularized coverage of the full spectrum of network theory suitable for a one-semester course. A balanced emphasis on conceptual understanding and problem-solving helps students master the basic principles and properties that govern circuit behaviour. A large number of solved examples show students the step-by-step processes for applying the techniques presented in the text. A variety of exercises with answers at the chapter ends allow students to practice the solution methods. Besides students pursuing courses in engineering, the book is also suitable for self-study by those preparing for AMIE and competitive examinations. An objective-type question bank at the end of book is designed to see how well the students have mastered the material presented in the text. **Knowledge Management in Organizations 14th International Conference, KMO 2019, Zamora, Spain, July 15-18, 2019, Proceedings** Springer This book contains the refereed proceedings of the 14th International Conference on Knowledge Management in Organizations, KMO 2019, held in Zamora, Spain, in July 2019. The 46 papers accepted for KMO 2018 were selected from 109 submissions and are organized in topical sections on: knowledge management models and analysis; knowledge transfer and learning; knowledge and service innovation; knowledge creation; knowledge and organization; information systems and information science; data mining and intelligent science; social networks and social aspects of KM; big data and IoT; and new trends in IT.