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## **KEY=SOLUTION - SOFIA JORDAN**

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**WHOLE DRAMA OF 70 YEAR ABDUL KARIM ALIAS TUNDA , , CAN BE ASSUMED AS LIKE BAL THACKERAY (SHIV SENA FOUNDER ) , RAJ THACKERAY (MNS ) , NARANDRA MODI (BJP ) , ASHOK SINGHAL , (VHP) PRAVEEN BHAI TOGADIYA , (VHP, BAJRANG**

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[Lulu.com](http://Lulu.com)

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## **SMART CITIES AS A SOLUTION FOR REDUCING URBAN WASTE AND POLLUTION**

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IGI Global The exponential growth of urban settings has led to an increase in pollutants and waste management issues around the world. As the environment continues to falter under the weight of these pressing issues, it has become increasingly imperative to develop new technologies and methodologies that have the potential to improve the overall sustainability and cleanliness of these cities. Smart Cities as a Solution for Reducing Urban Waste and Pollution examines emergent research on smart innovations within built urban environments. Featuring best practices and theoretical frameworks, as well as potential issues in the implementation of smart and green technology in urban settings, this publication is a vital reference source for graduate students, researchers, academics, engineers, architects, facility managers, and government officials.

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## **BIOGEOMETRY SIGNATURES**

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## **HARMONIZING THE BODY'S SUBTLE ENERGY EXCHANGE WITH THE ENVIRONMENT**

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Createspace Independent Publishing Platform Based on over 45 years of research, BioGeometry Signatures are linear diagrams that help balance the subtle energy of body organs. The organ subtle energy patterns are accessed through BioGeometry Signatures placed externally in the body's energy fields to create a connection through Resonance of Shape. "This is a book that will change the way you think about your body and your health. It shows that we are not separate from the shapes, angles and proportions that surround us all the time, and that these shapes create energetic patterns that can introduce equilibrium and harmony into our own biological makeup. This is a modern science of energy balancing that provides the key to the hidden ancient knowledge of great civilizations. With BioGeometry, Dr. Ibrahim Karim has demonstrated how powerful simple shapes can be in altering the functioning of our physical, mental, and spiritual worlds. This has been frequently demonstrated in architectural and design projects, environmental balancing solutions including the mitigation of the effects of electro-pollution and geopathic stress, in health and wellness projects, and in the efforts of individuals in their personal spiritual development. In this book on BioGeometry Signatures, once again you see how powerful certain carefully created shapes can be in altering the physical functioning of organ systems, in supporting healing, and in changing physical and mental states. Work with them, let them touch you, and feel how they can assist you in your own search for harmony." Michael J. Maley, Ph.D. Instructor in BioGeometry

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## **PHYSICS FOR SCIENTISTS AND ENGINEERS**

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[Addison-Wesley](http://Addison-Wesley)

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## **MATRIX ALGEBRA**

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Cambridge University Press A stand-alone textbook in matrix algebra for econometricians and statisticians - advanced undergraduates, postgraduates and teachers.

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## **BACK TO A FUTURE FOR MANKIND**

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CreateSpace This first-ever published collection of writings by Dr. Ibrahim Karim reflects the holistic essence of his worldview. Dr Karim is the founder of the Science of BioGeometry in the early 1970s. BioGeometry is the science that uses shapes, colors, motion and sound to induce harmony into the subtle energy qualities of the environment. At the core of this harmony is a subtle energy quality found in the transcendental centers of the forming process of nature and is the main quality in sacred power spots of humanity that give a spiritual dimension to the timeless monuments erected since the dawn of humanity. With his experience as an architect and a scientist Dr. Karim has synergized aspects of Pythagorean Harmonics, Subtle energy sciences, Radiesthesia, Geobiology, Building Biology, Sacred Architecture & modern wave theories to produce a new Physics of Quality from which the science of BioGeometry emerged. \*BioGeometry bridges science and spirituality to produce a natural harmony into the environment. \*BioGeometry provides a viable solution in transforming the quality of the effect that electromagnetic radiation has on living systems. Successful projects in Switzerland in collaboration & acknowledgment of Swiss authorities prove its efficiency to take our modern science into the future. \*BioGeometry provides new solutions to Earth Radiation, which is a serious health hazard if not acknowledged in the location and design of our buildings. \* A new energy-quality-based analysis of the Great Pyramid in Giza, reveals new knowledge on the foremost of the wonders of the world and on the essence of the great Ancient Egyptian civilization.

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## **DEGENERATE PARABOLIC EQUATIONS**

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Springer Science & Business Media Evolved from the author's lectures at the University of Bonn's Institut für angewandte Mathematik, this book reviews recent progress toward understanding of the local structure of solutions of degenerate and singular parabolic partial differential equations.

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## **HANDBOOK OF RESEARCH ON BIG DATA AND THE IOT**

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IGI Global The increase in connected devices in the internet of things (IoT) is leading to an exponential increase in the data that an organization is required to manage. To successfully utilize IoT in businesses, big data analytics are necessary in order to efficiently sort through the increased data. The combination of big data and IoT can thus enable new monitoring services and powerful processing of sensory data streams. The Handbook of Research on Big Data and the IoT is a pivotal reference source that provides vital research on emerging trends and recent innovative applications of big data and IoT, challenges facing organizations and the implications of these technologies on society, and best practices for their implementation. While highlighting topics such as bootstrapping, data fusion, and graph mining, this publication is ideally designed for IT specialists, managers, policymakers, analysts, software engineers, academicians, and researchers.

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## **JOURNAL OF THE ELECTROCHEMICAL SOCIETY**

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## **REVOLUTIONIZING INNOVATION**

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## **USERS, COMMUNITIES, AND OPEN INNOVATION**

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MIT Press A comprehensive and multidisciplinary view of the emerging paradigm of user and open innovation, offering both theoretical and empirical perspectives. The last two decades have witnessed an extraordinary growth of new models of managing and organizing the innovation process that emphasizes users over producers. Large parts of the knowledge economy now routinely rely on users, communities, and open innovation approaches to solve important technological and organizational problems. This view of innovation, pioneered by the economist Eric von Hippel, counters the dominant paradigm, which cast the profit-seeking incentives of firms as the main driver of technical change. In a series of influential writings, von Hippel and colleagues found empirical evidence that flatly contradicted the producer-centered model of innovation. Since then, the study of user-driven innovation has continued and expanded, with further empirical exploration of a distributed model of innovation that includes communities and platforms in a variety of contexts and with the development of theory to explain the economic underpinnings of this still emerging paradigm. This volume provides a comprehensive and multidisciplinary view of the field of user and open innovation, reflecting advances in the field over the last several decades. The contributors—including many colleagues of Eric von Hippel—offer both theoretical and empirical perspectives from such diverse fields as economics, the history of science and technology, law, management, and policy. The empirical contexts for their studies range from household goods to financial services. After discussing the fundamentals of user innovation, the contributors cover communities and innovation; legal aspects of user and community innovation; new roles for user innovators; user interactions with firms; and user innovation in practice, describing experiments, toolkits, and crowdsourcing, and crowdfunding. Contributors Efe Aksuyek,

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Yochai Benkler, James Bessen, Jörn H. Block, Annika Bock, Helena Canhão, Jeroen P. J. de Jong, Emmanuelle Fauchart, Dominique Foray, Nikolaus Franke, Johann Füller, Helena Garriga, Fred Gault, Fredrik Hacklin, Dietmar Harhoff, Joachim Henkel, Cornelius Herstatt, Christoph Hienerth, Venkat Kuppaswamy, Karim R. Lakhani, Christopher Lettl, Christian Lühje, Ethan Mollick, Hidehiko Nishikawa, Alessandro Nuvolari, Susumu Ogawa, Pedro Oliveira, Stefan Perkmann Berger, Frank Piller, Christina Raasch, Susanne Roiser, Fabrizio Salvador, Pamela Samuelson, Tim Schweisfurth, Sonali K. Shah, Christoph Stockstrom, Katherine J. Strandburg, Stefan Thomke, Andrew W. Torrance, Mary Tripsas, Georg von Krogh

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## **HANDBOOK OF LESS-COMMON NANOSTRUCTURES**

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CRC Press As nanotechnology has developed over the last two decades, some nanostructures, such as nanotubes, nanowires, and nanoparticles, have become very popular. However, recent research has led to the discovery of other, less-common nanoforms, which often serve as building blocks for more complex structures. In an effort to organize the field, the Handbook of Less-Common Nanostructures presents an informal classification based mainly on the less-common nanostructures. A small nanotechnological encyclopedia, this book: Describes a range of little-known nanostructures Offers a unifying vision of the synthesis of nanostructures and the generalization of rare nanoforms Includes a CD-ROM with color versions of more than 100 nanostructures Explores the fabrication of rare nanostructures, including modern physical, chemical, and biological synthesis techniques The Handbook of Less-Common Nanostructures discusses a classification system not directly related to the dimensionality and chemical composition of nanostructure-forming compounds or composite. Instead, it is based mainly on the less-common nanostructures. Possessing unusual shapes and high surface areas, these structures are potentially very useful for catalytic, medical, electronic, and many other applications.

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## **ADMINISTRATIVELY ADRIFT**

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### **OVERCOMING INSTITUTIONAL BARRIERS FOR COLLEGE STUDENT SUCCESS**

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Cambridge University Press The multiple crises of 2020–21 have presented both challenges and opportunities for change in four-year residential colleges and universities. Evidence indicates that the historic structure of administrative and student services is increasingly mismatched to the needs of a diverse and stressed student body born in a digital age. Inspired by his leadership in a university-wide initiative that focused on how students' interactions with both academic and professional staff affect their success and well-being, Scott A. Bass presents fresh insights on the inner workings of traditional nonprofit four-year degree residential institutions. The book describes the influences of history, tradition, and internal and external pressures on the American university, highlighting its evolution to its staid and fragmented structure; it distills voices of students, faculty, and staff; and it explores how successful organizations outside of higher education deliver services, with potential applicability for the academy's ability to meet students where they are.

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## **POLYMER AND CERAMIC ELECTROLYTES FOR ENERGY STORAGE DEVICES, TWO-VOLUME SET**

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CRC Press Polymer and Ceramic Electrolytes for Energy Storage Devices features two volumes that focus on the most recent technological and scientific accomplishments in polymer, ceramic, and specialty electrolytes and their applications in lithium-ion batteries. These volumes cover the fundamentals in a logical and clear manner for students, as well as researchers from different disciplines, to follow. The set includes the following volumes: Polymer Electrolytes for Energy Storage Devices, Volume I, offers a detailed explanation of recent progress and challenges in polymer electrolyte research for energy storage devices. Ceramic and Specialty Electrolytes for Energy Storage Devices, Volume II, investigates recent progress and challenges in a wide range of ceramic solid and quasi-solid electrolytes and specialty electrolytes for energy storage devices. These volumes will be invaluable to researchers and engineers working on the development of next-generation energy storage devices, including materials and chemical engineers, as well as those involved in related disciplines.

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## **POLYMER ELECTROLYTES FOR ENERGY STORAGE DEVICES**

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CRC Press Polymer Electrolytes for Energy Storage Devices, Volume I, offers a detailed explanation of recent progress and challenges in polymer electrolyte research for energy storage devices. The influence of these electrolyte properties on the performance of different energy storage devices is discussed in detail. Features: • Discusses a variety of energy storage systems and their workings and a detailed history of LIBs • Covers a wide range of polymer-based electrolytes including PVdF, PVdF-co-HFP, PAN, blend polymeric systems, composite polymeric systems, and polymer ionic liquid gel electrolytes • Provides a comprehensive review of biopolymer electrolytes for energy storage applications • Suitable for readers with experience in batteries as well as newcomers to the field This book will be invaluable to researchers and engineers working on the development of next-generation energy storage devices, including materials, chemical, electrical, and mechanical engineers, as well as those involved in related disciplines.

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## ADVANCED METHODS FOR PROCESSING AND VISUALIZING THE RENEWABLE ENERGY

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### A NEW PERSPECTIVE FROM SIGNAL TO IMAGE RECOGNITION

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Springer Nature This book is a collection of research work conducted by researchers at Centre for Smart Grid Energy Research (CSMER), Institute of Autonomous System, Universiti Teknologi PETRONAS (UTP), and Seismic Modelling and Inversion Group, King Abdullah University of Science and Technology (KAUST), Saudi Arabia. The book covers topics in the field of renewable energy where visualization, artificial neural network and deep learning techniques have been applied to optimize the performance of various applications in energy-related industries. These examples include a natural gas vehicle (NGV), a single axis and a fixed axis solar tracker, seismic inversion enhanced oil recovery, viability of a PV system and construction of a septic B-spline tensor product scheme. Readers will benefit from these examples, which describe the current trend of energy optimization techniques in renewable energy applications making it a good reference for the researchers and industrial practitioners working in the field of renewable energy and optimization techniques.

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### COMPLEX ANALYSIS

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Princeton University Press With this second volume, we enter the intriguing world of complex analysis. From the first theorems on, the elegance and sweep of the results is evident. The starting point is the simple idea of extending a function initially given for real values of the argument to one that is defined when the argument is complex. From there, one proceeds to the main properties of holomorphic functions, whose proofs are generally short and quite illuminating: the Cauchy theorems, residues, analytic continuation, the argument principle. With this background, the reader is ready to learn a wealth of additional material connecting the subject with other areas of mathematics: the Fourier transform treated by contour integration, the zeta function and the prime number theorem, and an introduction to elliptic functions culminating in their application to combinatorics and number theory. Thoroughly developing a subject with many ramifications, while striking a careful balance between conceptual insights and the technical underpinnings of rigorous analysis, Complex Analysis will be welcomed by students of mathematics, physics, engineering and other sciences. The Princeton Lectures in Analysis represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them. Numerous examples and applications throughout its four planned volumes, of which Complex Analysis is the second, highlight the far-reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences. Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in-depth considerations of complex analysis; measure and integration theory, and Hilbert spaces; and, finally, further topics such as functional analysis, distributions and elements of probability theory.

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### TECHNICAL CHALLENGES AND DESIGN ISSUES IN BANGLA LANGUAGE PROCESSING

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IGI Global Many take advantage of software and hardware accessibility in the English language. However, for non native speakers, this inevitably becomes a problem; specifically for the complex Bangla language which is not easily integrated into the world of technology. Technical Challenges and Design Issues in Bangla Language Processing addresses the difficulties as well as the overwhelming benefits associated with creating programs and devices that are accessible to the speakers of the Bangla language. Professionals, students, and researchers interested in expanding the fields of computing, information and knowledge management, and communication technologies in the non-English realm will benefit from this comprehensive collection of research.

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### XAM IDEA PHYSICS FOR CBSE CLASS 12- 2021

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VK Global Publications The new Xam Idea for Class XII Physics 2020-21 has been thoroughly revised, diligently designed, and uniquely formatted in accordance with CBSE requirements and NCERT guidelines. The features of the new Xam Idea are as follows: 1. The book has been thoroughly revised as per the new CBSE Examination Paper design. 2. The book is divided into two Sections: Part-A and Part-B. 3. Part-A includes the following: · Each Chapter is summarised in 'Basic Concepts'. · Important NCERT Textbook and NCERT Exemplar questions have been incorporated. · Previous Years' Questions have been added under different sections according to their marks. · Objective Type Questions have been included as per new CBSE guidelines. These include Multiple Choice Questions, Very Short Answer Questions, and Fill in the Blanks carrying 1 mark each. · Short Answer Questions carrying 2 marks each and Long Answer Questions carrying 3 marks and 5 marks have also been added. · At the end of every chapter, Self-Assessment Test has been given to test the extent of grasp by the student. 4. Part-B includes the following: · CBSE Sample Question Paper 2020 with complete solution. · Blueprint as per latest CBSE Sample Question Paper and Examination Paper 2020. · Unsolved Model Question Papers for ample practice by the student. · Solved CBSE Examination Papers 2020 (55/1/1), (55/1/2) and (55/1/3). · Solved sets of remaining four regions' CBSE Examination Papers are given in QR code.

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### OMNIA SUNT COMMUNIA

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**ON THE COMMONS AND THE TRANSFORMATION TO POSTCAPITALISM**

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Zed Books Ltd. In this weaving of radical political economy, *Omnia Sunt Communia* sets out the steps to postcapitalism. By conceptualising the commons not just as common goods but as a set of social systems, Massimo De Angelis shows their pervasive presence in everyday life, mapping out a strategy for total social transformation. From the micro to the macro, De Angelis unveils the commons as fields of power relations – shared space, objects, subjects – that explode the limits of daily life under capitalism. He exposes attempts to co-opt the commons, through the use of code words such as 'participation' and 'governance', and reveals the potential for radical transformation rooted in the reproduction of our communities, of life, of work and of society as a whole.

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**PHYSICS BRIEFS**

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**PHYSIKALISCHE BERICHTE**

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**OXFORD TEXTBOOK OF GLOBAL PUBLIC HEALTH**

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Oxford University Press Sixth edition of the hugely successful, internationally recognised textbook on global public health and epidemiology comprehensively covering the scope, methods, and practice of the discipline.

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**NOVEL ALGORITHMS AND TECHNIQUES IN TELECOMMUNICATIONS, AUTOMATION AND INDUSTRIAL ELECTRONICS**

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Springer Science & Business Media Novel Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology and Automation, Telecommunications and Networking. Novel Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics includes selected papers from the conference proceedings of the International Conference on Industrial Electronics, Technology and Automation (IETA 2007) and International Conference on Telecommunications and Networking (TeNe 07) which were part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

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**INTERNET OF THINGS**

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**FRAMEWORKS FOR ENABLING AND EMERGING TECHNOLOGIES**

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CRC Press Today, Internet of Things (IoT) is ubiquitous as it is applied in practice in everything from Industrial Control Systems (ICS) to e-Health, e-commerce, Cyber Physical Systems (CPS), smart cities, smart parking, healthcare, supply chain management and many more. Numerous industries, academics, alliances and standardization organizations make an effort on IoT standardization, innovation and development. But there is still a need for a comprehensive framework with integrated standards under one IoT vision. Furthermore, the existing IoT systems are vulnerable to huge range of malicious attacks owing to the massive numbers of deployed IoT systems, inadequate data security standards and the resource-constrained nature. Existing security solutions are insufficient and therefore it is necessary to enable the IoT devices to dynamically counter the threats and save the system. Apart from illustrating the diversified IoT applications, this book also addresses the issue of data safekeeping along with the development of new security-enhancing schemes such as blockchain, as well as a range of other advances in IoT. The reader will discover that the IoT facilitates a multidisciplinary approach dedicated to create novel applications and develop integrated solutions to build a sustainable society. The innovative and fresh advances that demonstrate IoT and computational intelligence in practice are discussed in this book, which will be helpful and informative for scientists, research scholars, academicians, policymakers, industry professionals, government organizations and others. This book is intended for a broad target audience, including scholars of various generations and disciplines, recognized scholars (lecturers and professors) and young researchers (postgraduate and undergraduates) who study the legal and socio-economic consequences of the emergence and dissemination of digital technologies such as IoT. Furthermore, the book is intended for researchers, developers and operators working in the field of IoT and eager to comprehend the vulnerability of the IoT paradigm. The book will serve as a comprehensive guide for the advanced-level students in computer science who are interested in understanding the severity and implications of the accompanied security issues in IoT. Dr. Bharat Bhushan is an Assistant Professor of Department of Computer Science and Engineering (CSE) at School of Engineering and Technology, Sharda University, Greater Noida, India. Prof. (Dr.) Sudhir Kumar Sharma is currently a Professor and Head of the Department of Computer Science, Institute of Information Technology & Management affiliated to GGSIPU, New Delhi, India. Prof. (Dr.) Bhuvan Unhelkar (BE, MBA, MSc, PhD; FACS; PSM-I, CBAP®) is an accomplished IT professional and Professor of IT at the University of South Florida, Sarasota-Manatee (Lead Faculty). Dr. Muhammad Fazal Ijaz is working as an Assistant Professor in Department of Intelligent Mechatronics Engineering, Sejong University, Seoul, Korea. Prof. (Dr.) Lamia Karim is a professor of computer science at the National School of Applied Sciences Berrechid (ENSAB), Hassan 1st University.

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## HANDBOOK OF DIGITAL CMOS TECHNOLOGY, CIRCUITS, AND SYSTEMS

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Springer Nature This book provides a comprehensive reference for everything that has to do with digital circuits. The author focuses equally on all levels of abstraction. He tells a bottom-up story from the physics level to the finished product level. The aim is to provide a full account of the experience of designing, fabricating, understanding, and testing a microchip. The content is structured to be very accessible and self-contained, allowing readers with diverse backgrounds to read as much or as little of the book as needed. Beyond a basic foundation of mathematics and physics, the book makes no assumptions about prior knowledge. This allows someone new to the field to read the book from the beginning. It also means that someone using the book as a reference will be able to answer their questions without referring to any external sources.

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## SUSTAINABLE FOOD PACKAGING TECHNOLOGY

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John Wiley & Sons Towards more sustainable packaging with biodegradable materials! The combination of the continuously increasing food packaging waste with the non-biodegradable nature of the plastic materials that have a big slice of the packaging market makes it necessary to move towards sustainable packaging for the benefit of the environment and human health. Sustainable packaging is the type of packaging that can provide to food the necessary protection conditions, but at the same time is biodegradable and can be disposed as organic waste to the landfills in order to biodegrade through a natural procedure. In this way, sustainable packaging becomes part of the circular economy. ?Sustainable Food Packaging Technology? deals with packaging solutions that use engineered biopolymers or biocomposites that have suitable physicochemical properties for food contact and protection and originate both from renewable or non-renewable resources, but in both cases are compostable or edible. Modified paper and cardboard with increased protective properties towards food while keeping their compostability are presented as well. The book also covers natural components that can make the packaging functional, e.g., by providing active protection to the food indicating food spoilage. \* Addresses urgent problems: food packaging creates a lot of hard-to-recycle waste - this book puts forward more sustainable solutions using biodegradable materials \* State-of-the-art: ?Sustainable Food Packaging Technology? provides knowledge on new developments in functional packaging \* From lab to large-scale applications: expert authors report on the technology aspects of sustainable packaging

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## MASS AND MOTION IN GENERAL RELATIVITY

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Springer Science & Business Media From the infinitesimal scale of particle physics to the cosmic scale of the universe, research is concerned with the nature of mass. While there have been spectacular advances in physics during the past century, mass still remains a mysterious entity at the forefront of current research. Our current perspective on gravitation has arisen over millennia, through the contemplation of falling apples, lift thought experiments and notions of stars spiraling into black holes. In this volume, the world's leading scientists offer a multifaceted approach to mass by giving a concise and introductory presentation based on insights from their respective fields of research on gravity. The main theme is mass and its motion within general relativity and other theories of gravity, particularly for compact bodies. Within this framework, all articles are tied together coherently, covering post-Newtonian and related methods as well as the self-force approach to the analysis of motion in curved space-time, closing with an overview of the historical development and a snapshot on the actual state of the art. All contributions reflect the fundamental role of mass in physics, from issues related to Newton's laws, to the effect of self-force and radiation reaction within theories of gravitation, to the role of the Higgs boson in modern physics. High-precision measurements are described in detail, modified theories of gravity reproducing experimental data are investigated as alternatives to dark matter, and the fundamental problem of reconciling any theory of gravity with the physics of quantum fields is addressed. Auxiliary chapters set the framework for theoretical contributions within the broader context of experimental physics. The book is based upon the lectures of the CNRS School on Mass held in Orléans, France, in June 2008. All contributions have been anonymously refereed and, with the cooperation of the authors, revised by the editors to ensure overall consistency.

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## MODELING VOLCANIC PROCESSES

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## THE PHYSICS AND MATHEMATICS OF VOLCANISM

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Cambridge University Press Understanding the physical behavior of volcanoes is key to mitigating the hazards active volcanoes pose to the ever-increasing populations living nearby. The processes involved in volcanic eruptions are driven by a series of interlinked physical phenomena, and to fully understand these, volcanologists must employ various physics subdisciplines. This book provides the first advanced-level, one-stop resource examining the physics of volcanic behavior and reviewing the state-of-the-art in modeling volcanic processes. Each chapter begins by explaining simple modeling formulations and progresses to present cutting-edge research illustrated by case studies. Individual chapters cover subsurface magmatic processes through to eruption in various environments and conclude with the application of modeling to understanding the other volcanic planets of our Solar System. Providing an accessible and practical text for graduate students of physical volcanology, this book is also an important resource for researchers and professionals in the fields of volcanology, geophysics, geochemistry, petrology and natural hazards.

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## ENERGY RESEARCH ABSTRACTS

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Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

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## NETWORKS, CROWDS, AND MARKETS

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## REASONING ABOUT A HIGHLY CONNECTED WORLD

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Cambridge University Press Are all film stars linked to Kevin Bacon? Why do the stock markets rise and fall sharply on the strength of a vague rumour? How does gossip spread so quickly? Are we all related through six degrees of separation? There is a growing awareness of the complex networks that pervade modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and intensity. This introductory book on the new science of networks takes an interdisciplinary approach, using economics, sociology, computing, information science and applied mathematics to address fundamental questions about the links that connect us, and the ways that our decisions can have consequences for others.

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## SUSTAINABLE ENERGY--WITHOUT THE HOT AIR

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Uit Cambridge Limited Provides an overview of the sustainable energy crisis that is threatening the world's natural resources, explaining how energy consumption is estimated and how those numbers have been skewed by various factors and discussing alternate forms of energy that can and should be used.

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## BASIC HYPERGEOMETRIC SERIES

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Cambridge University Press This revised and expanded new edition will continue to meet the needs for an authoritative, up-to-date, self contained, and comprehensive account of the rapidly growing field of basic hypergeometric series, or q-series. Simplicity, clarity, deductive proofs, thoughtfully designed exercises, and useful appendices are among its strengths. The first five chapters cover basic hypergeometric series and integrals, whilst the next five are devoted to applications in various areas including Askey-Wilson integrals and orthogonal polynomials, partitions in number theory, multiple series, orthogonal polynomials in several variables, and generating functions. Chapters 9-11 are new for the second edition, the final chapter containing a simplified version of the main elements of the theta and elliptic hypergeometric series as a natural extension of the single-base q-series. Some sections and exercises have been added to reflect recent developments, and the Bibliography has been revised to maintain its comprehensiveness.

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## THE SCIENCE, ETIOLOGY AND MECHANOBIOLOGY OF DIABETES AND ITS COMPLICATIONS

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Academic Press The Science, Etiology and Mechanobiology of Diabetes and Its Complications presents the most comprehensive synthesis of contemporary global research on diabetes, covering a novel and unique mechanobiological perspective - addressing prevention, management and treatment of tissue, organ and body system damage associated with diabetes and its complications. The book provides a unique approach to communicating diabetes-associated symptoms and opens avenues for development of novel therapeutic and preventive methods. It offers descriptive pathophysiology of diabetes and its complications with great emphasis on mechanobiology. Content coverage also includes management of tissue, organ and body system damage caused by chronic hyperglycemia. Biologists, life scientists, physicians, pharmacists, biomedical engineers, medical physicists, biomathematicians and computer scientists who are interested in the state-of-science and current challenges in the mechanobiology of diabetes should find this book very useful. Likewise, medical researchers in fields such as endocrinology, cardiovascular medicine, oncology, obesity, the immune system, inflammation and wound care and others who wish to be updated about the latest achievements in this exciting arena of research will find that information here. Covers the state-of-knowledge in diabetes research from a mechanobiological perspective, including cell death and (neural, connective, adipose, vascular, renal etc.) tissue damage cascades and healing processes Describes state-of-the-art technology in prevention, diagnosis, prognosis and treatment of tissue, organ and body system damage caused by chronic hyperglycemia and diabetes Explores emerging research directions and future technology trends in the field of diabetes prevention and care, including common complications of diabetes (foot ulcers and amputation, peripheral neuropathy, retinal damage, renal damage, vascular and cardiac damage, connective tissue damage etc.) at the early stage of research and development in academia and industry

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## **MATHEMATICS FOR COMPUTER SCIENCE**

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This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

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## **THE SECOND MACHINE AGE: WORK, PROGRESS, AND PROSPERITY IN A TIME OF BRILLIANT TECHNOLOGIES**

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W. W. Norton & Company A pair of technology experts describe how humans will have to keep pace with machines in order to become prosperous in the future and identify strategies and policies for business and individuals to use to combine digital processing power with human ingenuity.

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## **PHYSICS.**

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The publication of the first edition of Physics in 1960 launched the modern era of physics textbooks. It was a new paradigm then and, after 40 years, it continues to be the dominant model for all texts. The big change in the market has been a shift to a lower level, more accessible version of the model. Fundamentals of Physics is a good example of this shift. In spite of this change, there continues to be a demand for the original version and, indeed, we are seeing a renewed interest in Physics as demographic changes have led to greater numbers of well-prepared students entering university. Physics is the only book available for academics looking to teach a more demanding course.

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## **FOURIER ANALYSIS**

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### **AN INTRODUCTION**

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Princeton University Press This first volume, a three-part introduction to the subject, is intended for students with a beginning knowledge of mathematical analysis who are motivated to discover the ideas that shape Fourier analysis. It begins with the simple conviction that Fourier arrived at in the early nineteenth century when studying problems in the physical sciences--that an arbitrary function can be written as an infinite sum of the most basic trigonometric functions. The first part implements this idea in terms of notions of convergence and summability of Fourier series, while highlighting applications such as the isoperimetric inequality and equidistribution. The second part deals with the Fourier transform and its applications to classical partial differential equations and the Radon transform; a clear introduction to the subject serves to avoid technical difficulties. The book closes with Fourier theory for finite abelian groups, which is applied to prime numbers in arithmetic progression. In organizing their exposition, the authors have carefully balanced an emphasis on key conceptual insights against the need to provide the technical underpinnings of rigorous analysis. Students of mathematics, physics, engineering and other sciences will find the theory and applications covered in this volume to be of real interest. The Princeton Lectures in Analysis represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them. Numerous examples and applications throughout its four planned volumes, of which Fourier Analysis is the first, highlight the far-reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences. Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in-depth considerations of complex analysis; measure and integration theory, and Hilbert spaces; and, finally, further topics such as functional analysis, distributions and elements of probability theory.

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## **REASON, FREEDOM, AND DEMOCRACY IN ISLAM**

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### **ESSENTIAL WRITINGS OF ABDOLKARIM SOROUSH**

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Oxford University Press Soroush and his contemporaries in other Moslem countries are shaping what may become Islam's equivalent of the Christian Reformation: a period of questioning traditional practices and beliefs and, ultimately, of upheaval."

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## **HALOGEN BONDING IN SOLUTION**

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John Wiley & Sons Long-awaited on the importance of halogen bonding in solution, demonstrating the specific advantages in various fields - from synthesis and catalysis to biochemistry and electrochemistry! Halogen bonding (XB) describes the interaction between an electron donor and the electrophilic region of a halogen atom. Its applicability for molecular recognition processes long remained unappreciated and has mostly been studied in solid state until recently. As most physiological processes and chemical reactions take place in solution, investigations in solutions are of highest relevance for its use in organic synthesis and catalysis, pharmaceutical chemistry and drug design, electrochemistry, as well as material synthesis. Halogen Bonding in Solution gives a concise overview of

halogen bond interactions in solution. It discusses the history and electronic origin of halogen bonding and summarizes all relevant examples of its application in organocatalysis. It describes the use of molecular iodine in catalysis and industrial applications, as well as recent developments in anion transport and binding. Hot topic: Halogen bonding is an important interaction between molecules or within a molecule. The field has developed considerably in recent years, with numerous different approaches and applications having been published. Unique: There are several books on halogen bonding in solid state available, but this will be the first one focused on halogen bonding in solution. Multi-disciplinary: Summarizes the history and nature of halogen bonding in solution as well as applications in catalysis, anion recognition, biochemistry, and electrochemistry. Aimed at facilitating exciting future developments in the field, Halogen Bonding in Solution is a valuable source of information for researchers and professionals working in the field of supramolecular chemistry, catalysis, biochemistry, drug design, and electrochemistry.

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## **HAQIQATUL-WAHI**

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### **THE PHILOSOPHY OF DIVINE REVELATION**

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Islam International Publications Ltd In this book the Promised Messiah, on whom be peace, discusses the philosophy of divine revelation, the three categories of people who claim to receive revelation, and the distinction of the truthful from the false. He then establishes his truthfulness by documenting over 200 Signs, including the fulfillment of prophecies made by the Holy Prophet Muhammad, may peace and blessings of Allah be upon him, other men of God, earlier scriptures, and his own revelations spanning over twenty-five years. The author cites numerous examples of his enemies who publicly predicted his downfall and demise, only to become the very victims of their own prophecies. God, however, protected him against every assault, while continuously reassuring him of His promise to bless his Community—a promise which continues to bear the seal and testimony of history. The author also appeals to the followers of different faiths to read this book cover to cover to appreciate and accept this evidence as proof that God is One and the Holy Prophet Muhammad is the Messenger of God, and that he is the Promised Messiah raised to unite humanity under the banner of Islam.

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## **UNIVERSITY PHYSICS**

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"University Physics is a three-volume collection that meets the scope and sequence requirements for two- and three-semester calculus-based physics courses. Volume 1 covers mechanics, sound, oscillations, and waves. This textbook emphasizes connections between theory and application, making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result."--Open Textbook Library.