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BASIC COMPUTER ENGINEERING Market_Desc: Primary Market· Undergraduate I Year Engineering student of RGPV, Bhopal (More than 1 lac intake)Course: Basic Computer EngineeringCourse Code: B.E. - 205Secondary Market· Undergraduate first year students of various universities, such as· UPTU (ECS-101/ECS-201 : Computer Concepts and Programming in C)· UTU (Fundamentals of Computer & Programming)· PTU (CS-101 Fundaments of Computer Programming and Information Technology)· RTU (Computer Systems and Programming [104])· GTU (Computer Programming and Utilization)· Anna (GE2112 Fundamentals of Computing and Programming)· JNTU (C Programming and Data Structures)· BPUT (BCSE 3101 PROGRAMMING IN C)· VTU (10CCP13/10CCP23 Computer Concepts and C Programming)· CSVTU (300224 Introduction to Computing) Special Features: · Completely covers the syllabus as a textbook for B.E. first year course Basic Computer Engineering , RGPV (Bhopal) and similar courses in other universities.· Single-handedly caters to the requirements of several engineering disciplines that have this course in their curriculum.· Explains programming in C++ in detail.· Covers operating systems such as Windows, DOS and UNIX; database management systems; data structures; algorithms and C++, without entering into the specifics of programming languages and complex technologies.· Makes liberal use of screenshots to show how the screen would look like after processing the command.· Has increased utility owing to the presence of a large number of examples and illustrations.· Covers programming assignments and experimental portions under specific chapters to take into account the practical nature of the course.· Contains appendices that introduce readers to emerging areas of research such as neural networks and fuzzy logic.· Provides model question papers for practicing questions based on the examination pattern.· Excellent pedagogy having:ü 160+ Figuresü 70+ Tablesü 40+ Programs with outputü 70+ Syntaxes and explanatory examplesü 220+ Objective questionsü 170+ Review questionsü 50+ Programming assignments. About The Book: This book helps in familiarizing students with the basic organization of the computer, and then moving on to study of the operating systems such as Windows, DOS and UNIX; database management systems; data structures; algorithms and C++, without entering into the specifics of programming languages and complex technologies. It provides an insight into the basics of computers as delineated by the syllabi of RGPV and various reputed Indian universities. This book is suitable for self-study because of clear explanation of the topics, uniformity in presentation, illustration of concepts through numerous examples; and chapters are laced with various screenshots to give an idea as to how the screen would look like while performing that particular step. **Basic Computer Engineering Precise** John Wiley & Sons **OBJECT- ORIENTED PROGRAMMING IN C++ (With CD)** Market_Desc: · General Readers· Students pertaining to B.E., MCA, PGDCA, and MSc degree courses of most Indian universities and training institute offering OOPS & C++· C++ professionals Special Features: · Covers the complete syllabus of various universities offering course on object oriented programming methodologies· Concepts are well illustrated through examples and tested programs· Multiple choice questions are included at the end of each chapter· Model question papers are also included· Theoretical part is supported with C++ implementation. The attached CD contains numerous tested and debugged programs· Strong emphasis is given on implementation and examples throughout the book About The Book: This book offers solid, effective and easy to understand approach to the study of fundamental Object Oriented Programming. The book is a boon for general readers, C++ Professionals, and students from both graduate and postgraduate courses in computer engineering, who are inquisitive to explore each and every aspect of OOPS and C++. It renders expansive information about a wide array of topics like C++, arrays, structures, unions, bit fields, functions, pointers, template, exception handling, file handling and graphics with numerous examples. The text comprises fourteen chapters and each chapter is further divided into modules of major topics. Each module has a uniform structured presentation starting with learning objective, declaration, implementation, example programs, operations, and types, summary, multiple choice sections, programming assignments, review questions followed by the solution of the programming assignments. **Data, Engineering and Applications Volume 2** Springer This book presents a compilation of current trends, technologies, and challenges in connection with Big Data. Many fields of science and engineering are data-driven, or generate huge amounts of data that are ripe for the picking. There are now more sources of data than ever before, and more means of capturing data. At the same time, the sheer volume and complexity of the data have sparked new developments, where many Big Data problems require new solutions. Given its scope, the book offers a valuable reference guide for all graduate students, researchers, and scientists interested in exploring the potential of Big Data applications. **Computer Vision and Robotics Proceedings of CVR 2021** Springer Nature This book consists of a collection of the high-quality research articles in the field of computer vision and robotics which are presented in the International Conference on Computer Vision and Robotics (CVR 2021), organized by BBD University Lucknow, India, during 7–8 August 2021. The book discusses applications of computer vision and robotics in the fields like medical science, defence, and smart city planning. The book presents recent works from researchers, academicians,

industry, and policy makers. **The Cultural Authority of Science Comparing across Europe, Asia, Africa and the Americas** Routledge The cultural authority of science is the authority that is granted to science in any particular context. This authority is as much a matter of image and perceived legitimacy as of statutory guarantee. However, while authority can be charismatic, based on tradition or based on competence, we would assume that science aims to be an authority of competence. To what extent does science have the last word, or stand above opinion on public issues? This Indo-European led collaboration aims to map the cultural authority of science, and to construct a system of indicators to observe this 'science culture' based on artefacts (science news analysis) and espoused beliefs and evaluations (public attitude data). Indeed, through a series of studies the authors examine the cultural authority of science in light of the challenges posed by European, Asian, African and American developments and debates. In particular, two main ideas are examined: the 'Lighthouse' model, whereby science is shining into a stormy sea of ignorance and mistrust; and the 'Bungee Jump' model, which demonstrates how science occasionally experiences a rough ride against a backdrop of goodwill. Presenting expertise in discourse analysis, computer-assisted text analysis and largescale survey analysis, The Cultural Authority of Science will be of interest to a global audience concerned with the standing of science in society. In particular, it may appeal to scholars and students of fields such as sociology of science, science communication, science studies, scientometrics, innovation studies and social psychology. **Social Networking and Computational Intelligence Proceedings of SCI-2018** Springer Nature This book presents a selection of revised and extended versions of the best papers from the First International Conference on Social Networking and Computational Intelligence (SCI-2018), held in Bhopal, India, from October 5 to 6, 2018. It discusses recent advances in scientific developments and applications in these areas. **Sustainable Horticulture, Volume 1 Diversity, Production, and Crop Improvement** CRC Press Sustainable Horticulture, Volume 1: Diversity, Production, and Crop Improvements is part of a two-volume compendium that addresses the most important topics facing horticulture around the world today. Volume 1, on Diversity, Production, and Crop Improvement, outlines the contemporary trends in sustainable horticulture research, covering such topics as crop diversity, species variability and conservation strategies, production technology, tree architecture management, plant propagation and nutrition management, organic farming, and new dynamics in breeding and marketing of horticulture crops. Sections include: Genetic Resources & Biodiversity Conservation Production & Marketing of Horticulture Crops Crop Improvement & Biotechnology Together with Volume 2: Food, Health, and Nutrition, this two-volume compendium presents an abundance of new research on sustainable horticulture that will be valuable for a broad audience, including students of horticulture, faculty and instructors, scientists, agriculturists, government and nongovernment organizations, and other industry professionals. **Formal Methods and Models for System Design A System Level Perspective** Springer Science & Business Media Perhaps nothing characterizes the inherent heterogeneity in embedded sys tems than the ability to choose between hardware and software implementations of a given system function. Indeed, most embedded systems at their core repre sent a careful division and design of hardware and software parts of the system To do this task effectively, models and methods are necessary functionality. to capture application behavior, needs and system implementation constraints. Formal modeling can be valuable in addressing these tasks. As with most engineering domains, co-design practice defines the state of the it seeks to add new capabilities in system conceptualization, mod art, though eling, optimization and implementation. These advances -particularly those related to synthesis and verification tasks -direct1y depend upon formal under standing of system behavior and performance measures. Current practice in system modeling relies upon exploiting high-level programming frameworks, such as SystemC, EstereI, to capture design at increasingly higher levels of ab straction and attempts to reduce the system implementation task. While raising the abstraction levels for design and verification tasks, to be really useful, these approaches must also provide for reuse, adaptation of the existing intellectual property (IP) blocks. **Research Developments in Computer Vision and Image Processing: Methodologies and Applications Methodologies and Applications** IGI Global Similar to the way in which computer vision and computer graphics act as the dual fields that connect image processing in modern computer science, the field of image processing can be considered a crucial middle road between the vision and graphics fields. Research Developments in Computer Vision and Image Processing: Methodologies and Applications brings together various research methodologies and trends in emerging areas of application of computer vision and image processing. This book is useful for students, researchers, scientists, and engineers interested in the research developments of this rapidly growing field. **Sustainable Horticulture, 2 Volume Set** CRC Press This timely two-volume compendium, Sustainable Horticulture, addresses the most important topics facing horticulture around the world today. The volumes cover a wide range of topical issues and trends in sustainable horticulture today: Volume 1: Diversity, Production, and Crop Improvements, and Volume 2: Food, Health, and Nutrition. Global food demand is expected to be double by 2050, while at the same time the production environment and natural resources are continually shrinking and deteriorating due to many complex factors. Horticulture, a major sector of agriculture, is vital to enhancing crop production and productivity in parity with agricultural crops to meet the emerging food demand. Implementing sustainable models of crop production is really an enormous endeavor. Promising technologies and management options are needed to increase productivity to meet the growing food demand despite deteriorating production environments. **Innovations in the Industrial Internet of Things (IIoT) and Smart Factory** IGI Global Industrial internet of things (IIoT) is changing the face of industry by completely redefining the way stakeholders, enterprises, and machines connect and interact with each other in the industrial digital ecosystem. Smart and connected factories, in which all the machinery transmits real-time data, enable industrial data analytics for improving operational efficiency, productivity, and industrial processes, thus creating new business opportunities, asset utilization, and connected services. IIoT leads factories to step out of legacy environments and arcane processes towards open digital industrial ecosystems. Innovations in the Industrial Internet of Things (IIoT) and Smart Factory is a pivotal reference source that discusses the development of models and algorithms for predictive control of industrial operations and focuses on optimization of industrial operational efficiency, rationalization, automation, and maintenance. While highlighting topics such as artificial intelligence, cyber security, and data collection, this book is ideally designed for engineers, manufacturers, industrialists, managers, IT consultants, practitioners, students, researchers, and industrial industry professionals. **Soft Computing: Theories and Applications Proceedings of SoCTA 2018** Springer Nature The book focuses on soft computing and its applications to solve real-world problems in different domains, ranging from medicine and health care, to supply chain management, image processing and cryptanalysis. It includes

high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2018), organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India. Offering significant insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing. **Proceedings of the 1st International Conference on Sustainable Waste Management through Design IC_SWMD 2018** Springer This book describes the latest advances, innovations and applications in the field of waste management and environmental geomechanics as presented by leading researchers, engineers and practitioners at the International Conference on Sustainable Waste Management through Design (IC_SWMD), held in Ludhiana (Punjab), India on November 2-3, 2018. Providing a unique overview of new directions, and opportunities for sustainable and resilient design approaches to protect infrastructure and the environment, it discusses diverse topics related to civil engineering and construction aspects of the resource management cycle, from the minimization of waste, through the eco-friendly re-use and processing of waste materials, the management and disposal of residual wastes, to water treatments and technologies. It also encompasses strategies for reducing construction waste through better design, improved recovery, re-use, more efficient resource management and the performance of materials recovered from wastes. The contributions were selected by means of a rigorous peer-review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different waste management specialists. **Proceedings of Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2012) Volume 1** Springer Science & Business Media The book is a collection of high quality peer reviewed research papers presented in Seventh International Conference on Bio-Inspired Computing (BIC-TA 2012) held at ABV-IIITM Gwalior, India. These research papers provide the latest developments in the broad area of "Computational Intelligence". The book discusses wide variety of industrial, engineering and scientific applications of nature/bio-inspired computing and presents invited papers from the inventors/originators of novel computational techniques. **International Conference on Innovative Computing and Communications Proceedings of ICICC 2020, Volume 1** Springer Nature This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21–23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications. **Soft Computing for Problem Solving SocProS 2018, Volume 2** Springer Nature This two-volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving, SocProS 2018. This conference was a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), and Vellore Institute of Technology (India), and brought together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions. The book highlights the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers on algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It offers a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems that are difficult to solve using traditional methods. **Internet of Things and Analytics for Agriculture, Volume 3** Springer Nature The book discusses one of the major challenges in agriculture which is delivery of cultivate produce to the end consumers with best possible price and quality. Currently all over the world, it is found that around 50% of the farm produce never reaches the end consumer due to wastage and suboptimal prices. The authors present solutions to reduce the transport cost, predictability of prices on the past data analytics and the current market conditions, and number of middle hops and agents between the farmer and the end consumer using IoT-based solutions. Again, the demand by consumption of agricultural products could be predicted quantitatively; however, the variation of harvest and production by the change of farm's cultivated area, weather change, disease and insect damage, etc., could be difficult to be predicted, so that the supply and demand of agricultural products has not been controlled properly. To overcome, this edited book designed the IoT-based monitoring system to analyze crop environment and the method to improve the efficiency of decision making by analyzing harvest statistics. The book is also useful for academicians working in the areas of climate changes. **Applied Physics Smart Technologies for Sustainable Development Select Proceedings of SMTS 2019** Springer Nature This book presents select papers from the International Conference on Smart Materials and Techniques for Sustainable Development (SMTS) 2019. The contents focus on a wide range of methods and techniques related to sustainable development fields like smart structures and materials, innovation in water resource development, optical fiber communication, green construction materials, optimization and innovation in structural design, structural dynamics and earthquake engineering, structural health monitoring, nanomaterials, nanotechnology and sensors, smart biomaterials and medical devices, materials for energy conversion and storage devices, and IoT in sustainable development. This book aims to provide up-to-date and authoritative knowledge from both industrial and academic worlds, sharing best practice in the field of smart materials analysis. The contents of this book will be beneficial to students, researchers, and professionals working in the field of smart materials and sustainable development. **Computer Networks and Inventive Communication Technologies Proceedings of Third ICCNCT 2020** Springer Nature This book is a collection of peer-reviewed best selected research papers presented at 3rd International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2020). The book covers new results in theory, methodology, and applications of computer networks and data communications. It includes original papers on computer networks, network protocols and wireless networks, data communication technologies, and network security. The proceedings of this conference is a valuable resource, dealing with both the important core and the specialized issues in the areas of next generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practice. It is a reference for researchers, instructors, students, scientists, engineers, managers, and industry practitioners for advance work in the area. **Advances in Computing and Data Sciences Third International Conference, ICACDS 2019, Ghaziabad, India, April 12-13, 2019, Revised Selected Papers, Part II** This two-volume set (CCIS 1045 and CCIS 1046) constitutes the refereed proceedings of the Third International Conference on Advances in Computing and Data Sciences, ICACDS 2019,

held in Ghaziabad, India, in April 2019. The 112 full papers were carefully reviewed and selected from 621 submissions. The papers are centered around topics like advanced computing, data sciences, distributed systems organizing principles, development frameworks and environments, software verification and validation, computational complexity and cryptography, machine learning theory, database theory, probabilistic representations. **Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications ICMISC 2020** Springer Nature This book gathers selected research papers presented at the International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC 2020), held on 29–30 March 2020 at CMR Institute of Technology, Hyderabad, Telangana, India. Discussing current trends in machine learning, Internet of things, and smart cities applications, with a focus on multi-disciplinary research in the area of artificial intelligence and cyber-physical systems, this book is a valuable resource for scientists, research scholars and PG students wanting formulate their research ideas and find the future directions in these areas. Further, it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe. **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. **Emerging Technologies in Computing Theory, Practice, and Advances** CRC Press Emerging Technologies in Computing: Theory, Practice, and Advances reviews the past, current, and future needs of technologies in the computer science field while it also discusses the emerging importance of appropriate practices, advances, and their impact. It outlines emerging technologies and their principles, challenges, and applications as well as issues involved in the digital age. With the rapid development of technologies, it becomes increasingly important for us to remain up to date on new and emerging technologies. It draws a clear illustration for all those who have a strong interest in emerging computing technologies and their impacts on society. Features: Includes high-quality research work by academicians and industrial experts in the field of computing Offers case studies related to Artificial Intelligence, Blockchain, Internet of Things, Multimedia Big Data, Blockchain, Augmented Reality, Data Science, Robotics, Cybersecurity, 3D Printing, Voice Assistants and Chatbots, and Future Communication Networks Serves as a valuable reference guide for anyone seeking knowledge about where future computing is heading **Machine Learning, Advances in Computing, Renewable Energy and Communication Proceedings of MARC 2020** Springer Nature This book gathers selected papers presented at International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC 2020), held in Krishna Engineering College, Ghaziabad, India, during December 17–18, 2020. This book discusses key concepts, challenges, and potential solutions in connection with established and emerging topics in advanced computing, renewable energy, and network communications. **Intelligent Communication, Control and Devices Proceedings of ICICCD 2017** Springer The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It contains high-quality research papers presented at the 2nd international conference, ICICCD 2017, organized by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 15 and 16 April, 2017. The volume broadly covers recent advances of intelligent communication, intelligent control and intelligent devices. The work presented in this book is original research work, findings and practical development experiences of researchers, academicians, scientists and industrial practitioners. **Recent Trends in Communication and Electronics Proceedings of the International Conference on Recent Trends in Communication and Electronics (ICCE-2020), Ghaziabad, India, 28-29 November, 2020** CRC Press The Department of Electronics and Communication Engineering of KIET Group of Institutions, Delhi-NCR organized the 4th International Conference ICCE-2020 during November 28-29, 2020. Information compiled in this book is based on the 114 research papers of excellent quality covering different domains of Electronics and Communication Engineering, Computer Science Engineering, Information Technology, Electrical Engineering, Electronics and Instrumentation Engineering. The subject areas treated in the book are: Satellite, Radar and Microwave Techniques, Secure, Smart, and Reliable Networks, Next Generation Networks, Devices & Circuits, Signal & Image Processing, New Emerging Technologies, having the central focus on Recent Trends in Communication & Electronics (ICCE-2020). In addition, a few themes based on Special Sessions have also been conducted in ICCE-2020. The objective of the book resulting from the 4th International Conference on Recent Trends in Communication & Electronics (ICCE-2020) is to provide a resource for the study and research work for an interested audience comprising of researchers, students, audience, and practitioners in the areas of Communications & Computing Systems. **Recent Advances in Lichenology Modern Methods and Approaches in Lichen Systematics and Culture Techniques, Volume 2** Springer This book discusses in detail molecular, mycobiont culture, biomonitoring and bioprospection of lichens, providing insights into advances in different fields of lichenology by applying modern techniques and approaches and examining how their application has enhanced or changed classical approaches. It offers a valuable resource, especially for beginners, students and researchers from different academic backgrounds interested in the study of lichens. In recent years, the introduction of modern analytical techniques and approaches has significantly improved our understanding of the environment, including lichens. Lichens are unique organisms which possess untapped potential as effective and reliable bioindicators, sources of therapeutic phytochemicals, and as excellent extremophiles. The unique and peculiar characteristics of lichens underline the need for a multidimensional approach to explore their potential in various fields of environment science, botany and chemistry. Modern techniques, especially molecular techniques, have greatly enriched the field of lichen taxonomy and its position in the plant kingdom, revealing little-known species and exploring their evolutionary history, while multivariate analysis and GIS approaches have established lichens as an ideal and reliable tool for monitoring air pollution. Advanced culture techniques have expanded the pharmacological applications of lichens, which was formerly restricted due to their small biomass. The advent of sophisticated analytical instrumentation has now facilitated the isolation and characterization of lichens' bioactive constituents, even in lower concentrations, as well as the estimation of their stress responses at different levels of pollution. As lichen diversity is adversely affected by increasing air pollution, there is a pressing need to develop effective management practices to

conserve, restore and document lichen diversity. **Analysis and Design of Algorithms** Technical Publications This well-organized textbook provides the design techniques of algorithms in a simple and straight forward manner. The book begins with a description of the fundamental concepts such as algorithm, functions and relations, vectors and matrices. Then it focuses on efficiency analysis of algorithms. In this unit, the technique of computing time complexity of the algorithm is discussed along with illustrative examples. Gradually, the text discusses various algorithmic strategies such as divide and conquer, dynamic programming, Greedy algorithm, backtracking and branch and bound. Finally the string matching algorithms and introduction to NP completeness is discussed. Each algorithmic strategy is explained in stepwise manner, followed by examples and pseudo code. Thus this book helps the reader to learn the analysis and design of algorithms in the most lucid way. **Design and Analysis of Algorithms A Contemporary Perspective** Cambridge University Press Focuses on the interplay between algorithm design and the underlying computational models. **Functional Electrical Stimulation Standing and Walking After Spinal Cord Injury** CRC Press This reference text covers the fundamental knowledge and principles of functional electrical stimulation (FES) as applied to the spinal cord injured (SCI) patient. The principles of FES application and basic biomechanical issues related to FES in SCI are stressed. The fundamentals regarding patient selection criteria, indication, contraindications, and descriptions of procedures are clearly presented. Also included are the fundamentals and rationale of gait restoration with patient selection, control strategies, and the synthesis of gait sequences with trends in the field. Each chapter contains numerous references to the FES literature for the reader to easily evaluate and extend his knowledge in the area of interest. Biomedical and rehabilitation engineering professionals and researchers for medical doctors, physical therapists, and orthotists will find this publication invaluable. **Trends in Computer Science, Engineering and Information Technology First International Conference, CCSEIT 2011, Tirunelveli, Tamil Nadu, India, September 23-25, 2011, Proceedings** Springer Science & Business Media This book constitutes the refereed proceedings of the First International Conference on Computer Science, Engineering and Information Technology, CCSEIT 2011, held in Tirunelveli, India, in September 2011. The 73 revised full papers were carefully reviewed and selected from more than 400 initial submissions. The papers feature significant contributions to all major fields of the Computer Science and Information Technology in theoretical and practical aspects. **Electrical and Electronic Devices, Circuits, and Materials Technological Challenges and Solutions** John Wiley & Sons The increasing demand for electronic devices for private and industrial purposes lead designers and researchers to explore new electronic devices and circuits that can perform several tasks efficiently with low IC area and low power consumption. In addition, the increasing demand for portable devices intensifies the call from industry to design sensor elements, an efficient storage cell, and large capacity memory elements. Several industry-related issues have also forced a redesign of basic electronic components for certain specific applications. The researchers, designers, and students working in the area of electronic devices, circuits, and materials sometimesneed standard examples with certain specifications. This breakthrough work presents this knowledge of standard electronic device and circuit design analysis, including advanced technologies and materials. This outstanding new volume presents the basic concepts and fundamentals behind devices, circuits, and systems. It is a valuable reference for the veteran engineer and a learning tool for the student, the practicing engineer, or an engineer from another field crossing over into electrical engineering. It is a must-have for any library. **How India Earns, Spends and Saves Unmasking the Real India** SAGE Publishing India How India Earns, Spends and Saves maps the earning, spending and saving profiles of Indians in the post-liberalisation era. It studies how socio-economic, religious and individual characteristics lead to inequality in the incomes of households. Among other aspects of the problematique, it reveals that while a household's income is primarily dependent on socio-economic factors (occupation, education and age of its chief earner), its economic prosperity is impacted by factors like its spending and saving levels, sectors of employment of members, state of residence, and so on. The book is based on the results of the National Survey of Household Income and Expenditure (NSHIE) 2004–05, conducted under the aegis of the National Council for Applied Economics Research (NCAER). It not only offers valuable insights for economic analysts, policy makers, development professionals and academics, but the primary data of the survey also offers opportunities for further research. **Blockchain Applications in IoT Security** Information Science Reference "This book examines the role of blockchain technology in IoT generated data security issues"-- **Advances in Structural Engineering Materials, Volume Three** Springer The book presents research papers presented by academicians, researchers, and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention (SEC) 2014 at Indian Institute of Technology Delhi during 22 – 24 December 2014. The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering, such as earthquake engineering and structural dynamics, structural mechanics, finite element methods, structural vibration control, advanced cementitious and composite materials, bridge engineering, and soil-structure interaction. Advances in Structural Engineering is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students, academicians, researchers and practicing engineers. **Theory of Computer Science Automata, Languages and Computation** PHI Learning Pvt. Ltd. This Third Edition, in response to the enthusiastic reception given by academia and students to the previous edition, offers a cohesive presentation of all aspects of theoretical computer science, namely automata, formal languages, computability, and complexity. Besides, it includes coverage of mathematical preliminaries. NEW TO THIS EDITION • Expanded sections on pigeonhole principle and the principle of induction (both in Chapter 2) • A rigorous proof of Kleene's theorem (Chapter 5) • Major changes in the chapter on Turing machines (TMs) – A new section on high-level description of TMs – Techniques for the construction of TMs – Multitape TM and nondeterministic TM • A new chapter (Chapter 10) on decidability and recursively enumerable languages • A new chapter (Chapter 12) on complexity theory and NP-complete problems • A section on quantum computation in Chapter 12. • KEY FEATURES • Objective-type questions in each chapter—with answers provided at the end of the book. • Eighty-three additional solved examples—added as Supplementary Examples in each chapter. • Detailed solutions at the end of the book to chapter-end exercises. The book is designed to meet the needs of the undergraduate and postgraduate students of computer science and engineering as well as those of the students offering courses in computer applications. **NETWORK SECURITY AND MANAGEMENT** PHI Learning Pvt. Ltd. Written in an easy-to-understand style, this textbook, now in its third edition, continues to discuss in detail important concepts and major developments in network security and management. It is designed for a one-semester course for undergraduate students of Computer Science, Information Technology, and undergraduate and

postgraduate students of Computer Applications. Students are first exposed to network security principles, organizational policy and security infrastructure, and then drawn into some of the deeper issues of cryptographic algorithms and protocols underlying network security applications. Encryption methods, secret key and public key cryptography, digital signature and other security mechanisms are emphasized. Smart card, biometrics, virtual private networks, trusted operating systems, pretty good privacy, database security, and intrusion detection systems are comprehensively covered. An in-depth analysis of technical issues involved in security management, risk management and security and law is presented. In the third edition, two new chapters—one on Information Systems Security and the other on Web Security—and many new sections such as digital signature, Kerberos, public key infrastructure, software security and electronic mail security have been included. Additional matter has also been added in many existing sections. KEY FEATURES : Extensive use of block diagrams throughout helps explain and clarify the concepts discussed. About 250 questions and answers at the end of the book facilitate fruitful revision of the topics covered. Includes a glossary of important terms. KEY FEATURES : Extensive use of block diagrams throughout helps explain and clarify the concepts discussed. About 250 questions and answers at the end of the book facilitate fruitful revision of the topics covered. Includes a glossary of important terms. **Business Communication Latest Edition according to Minimum Uniform Syllabus Prescribed by National Education Policy** SBPD Publishing House The book 'Business Communication' is of utmost utility for the students of various courses namely B.Com, BBA, MBA, etc. This book has been prepared according to the revised syllabus. For the help of the students, the subject matter of the book is simple, comprehensible and easily understandable. Moreover, wherever required, important facts, examples, tables, graphs, etc. are used for enhancing the quality of the chapters. For self-assessment, at the end of each chapter, Long Answer Type Questions, Short Answer Type Questions and Objective Type Questions are given that were asked in previous examinations of various universities.