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Engineering Mathmatics 1: First and Second Semester Rajiv Gandhi Proudyogiki Vishwavidyalaya Basic Electrical Engineering **Analog Communication** Engineering Mathematics - I: For RGPV Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning *Big Data and Knowledge Sharing in Virtual Organizations* **Handbook of Research on Software Quality Innovation in Interactive Systems Exploring the Convergence of Big Data and the Internet of Things Social Networking and Computational Intelligence** Handbook of Nanomaterials, Volume 1 **Handbook of Universities Machine Intelligence and Smart Systems Bioinformatics Tools and Big Data Analytics for Patient Care** *Engineering Graphics: For RGPV* **Using Computational Intelligence for the Dark Web and Illicit Behavior Detection** *IoT Communication Protocols Basics of Engineering Mathematics Vol-I (RGPV Bhopal)* **5G & IOT TECHNOLOGIES Advanced computer Architecture Engineering Mathematics - II: For RGPV Biodiesel Fuels** Applied Approach to Privacy and Security for the Internet of Things **Wearable Devices, Surveillance Systems, and AI for Women's Wellbeing Large-Scale Data Streaming, Processing, and Blockchain Security** Smart Nanomaterials to Combat the Spread of Viral Infections *Fingerprinting Analysis and Quality Control Methods of Herbal Medicines* **Innovative Research in Thermal Imaging for Biology and Medicine Internet of Things and Advanced Application in Healthcare Computational Intelligence Applications for Software Engineering Problems** *5G and Beyond* Advancements in Bio-Medical Image Processing and Authentication in Telemedicine Machine Vision and Augmented Intelligence—Theory and Applications **Recent Advancement in Prodrugs** *Education of Cancer Healing Vol. III - Ancients* Data Science and Applications Emerging Materials and Advanced Designs for Wearable Antennas *Swarm Intelligence and Machine Learning Advances in Computer Science and Information Technology. Computer Science and Information Technology* **Machine Learning and Data Mining for Emerging Trend in Cyber Dynamics** *Basic of Engineering Chemistry (For RGPV, Bhopal)*

Dr.Vijendra Pratap Singh Assistant Professor Department of Computer Science and Applications, Mahatma Gandhi Kashi Vidyapith, Varanasi, Uttar Pradesh, India. Pin Code:221002 Mr.Neeraj Kumar Research Scholar School of Information Technology, University Teaching Department, Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, Madhya Pradesh, India. Pin Code:462033 Mr.Ambuj Kumar Misra Assistant Professor Department of Computer Science and Applications, Mahatma Gandhi Kashi Vidyapith, Varanasi, Uttar Pradesh, India. Pin Code:221002 Dr.Prathyusha.Kuncha Associate Professor Department of Electronics and Communication Engineering, NRI Institute of Technology, Pothavarappadu, Vijayawada, Andhra Pradesh, India. Pin Code:521212 This new volume explores the computational intelligence techniques necessary to carry out different software engineering tasks. Software undergoes various stages before deployment, such as requirements elicitation, software designing, software project planning, software coding, and software testing and maintenance. Every stage is bundled with a number of tasks or activities to be performed. Due to the large and complex nature of software, these tasks can become costly and error prone. This volume aims to help meet these challenges by presenting new research and practical applications in intelligent techniques in the field of software engineering. Computational Intelligence Applications for Software Engineering Problems discusses techniques and presents case studies to solve engineering challenges using machine learning, deep learning, fuzzy-logic-based computation, statistical modeling, invasive weed meta-heuristic algorithms, artificial intelligence, the DevOps model, time series forecasting models, and more. Mr.Neeraj Kumar Research Scholar School of Information Technology, University Teaching Department, Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, Madhya Pradesh, India. Pin Code:462033 Dr.Vijendra Pratap Singh Assistant Professor Department of Computer Science and Applications, Mahatma Gandhi Kashi Vidyapith, Varanasi, Uttar Pradesh, India. Pin Code:221002 Dr. Murali Dhar M S Associate Professor School of Computing, Department of Computer Science & Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Vel Nagar, Chennai, Tamil Nadu, India. Pin Code:600062 Mr.Chandra Sekhar Pedada Assistant Professor Department of Electronics and Communication Engineering, Chaitanya Bharathi Institute of Technology (A), Gandipet, Hyderabad, Telangana, India. Pin Code:500075 For B.E. First year Semester I (all branches) strictly according to the syllabus of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) and all Engineering Colleges affiliated to Ravi Shankar University, Raipur(Chattisgarh) This book is a collection of peer-reviewed best selected research papers presented at the Second International Conference on Machine Intelligence and Smart Systems (MISS 2021), organized during September 24–25, 2021, in Gwalior, India. The book presents new advances and research results in the fields of machine intelligence, artificial intelligence and smart systems. It includes main paradigms of machine intelligence algorithms, namely (1) neural networks, (2) evolutionary computation, (3) swarm intelligence, (4) fuzzy systems and (5) immunological computation. Scientists, engineers, academicians, technology developers, researchers, students and government officials will find this book useful in handling their complicated real-world issues by using machine intelligence methodologies. Analog Communication Handbook of Nanomaterials: Electronics, Information Technology, Energy, Transportation, and Consumer Products offers a comprehensive resource that introduces the role of nanotechnology and nanomaterials in a broad range of areas, covering fundamentals, methods, and applications. In this volume, the initial chapters introduce the core concepts of nanotechnology, and synthesis methods and characterization techniques for nanomaterials. This is followed by dedicated sections focusing on key application areas across electronics, information technology, energy, transportation, and consumer products. In each chapter, detailed but concise information is provided on a specific application, covering methods and latest advances. This book is of interest to researchers and advanced students approaching nanotechnology from a range of disciplines, including materials science and engineering, chemistry, chemical engineering, electronics, energy, biomedicine, environmental science, food science, and agriculture, as well as scientists, engineers, and R&D professionals with an interest in the use of nanomaterials across a range of industries. Introduces the reader to key applications of nanomaterials Provides broad, systematic, concise coverage, supporting readers from a range of disciplines Covers applications across electronics, information technology, energy, transportation, and consumer products Due to the increase in the consumption of herbal medicine, there is a need to know which scientifically based methods are appropriate for assessing the quality of herbal medicines. Fingerprinting has emerged as a suitable technique for quality estimation. Chemical markers are used for evaluation of herbal medicines. Identification and quantification of these chemical markers are crucial for quality control of herbal medicines. This book provides updated knowledge on methodology, quality assessment, toxicity analysis and medicinal values of natural compounds. The Dark Web is a known hub that hosts myriad illegal activities behind the veil of anonymity for its users. For years now, law enforcement has been struggling to track these illicit activities and put them to an end. However, the depth and anonymity of the Dark Web has made these efforts difficult, and as cyber criminals have more advanced technologies available to them, the struggle appears to only have the potential to worsen. Law enforcement and government organizations also have emerging technologies on their side, however. It is essential for these organizations to stay up to date on these emerging technologies, such as computational intelligence, in order to put a stop to the illicit activities and behaviors presented in the Dark Web. Using Computational Intelligence for the Dark Web and Illicit Behavior Detection presents the emerging technologies and applications of computational intelligence for the law enforcement of the Dark Web. It features analysis into cybercrime data, examples of the application of computational intelligence in the Dark Web, and provides future opportunities for growth in this field. Covering topics such as cyber threat detection, crime prediction, and keyword extraction, this premier reference source is an essential resource for government organizations, law enforcement agencies, non-profit organizations, politicians, computer scientists, researchers, students, and academicians. The inclusion of experts in communicability in the software industry has allowed timeframes to speed up in the commercialization of new technological products worldwide. However, this

constant evolution of software in the face of the hardware revolution opens up a host of new horizons to maintain and increase the quality of the interactive systems following a set of standardized norms and rules for the production of interactive software. Currently, we see some efforts towards this goal, but they are still partial solutions, incomplete, and flawed from the theoretical as well as practical points of view. If the quality of the interactive design is analyzed, it is left to professionals to generate systems that are efficient, reliable, user-friendly, and cutting-edge. The Handbook of Research on Software Quality Innovation in Interactive Systems analyzes the quality of the software applied to the interactive systems and considers the constant advances in the software industry. This book reviews the past and present of information and communication technologies with a projection towards the future, along with analyses of software, software design, phrases to use, and the purposes for software applications in interactive systems. This book is ideal for students, professors, researchers, programmers, analysists of systems, computer engineers, interactive designers, managers of software quality, and evaluators of interactive systems. Today the healthcare sector is facing challenges such as detecting the cause of ailments, disease prevention, high operating costs, availability of skilled technicians and infrastructure bottlenecks. Intelligent healthcare management technologies are needed to manage these challenges. Healthcare organizations also need to continuously discover useful and actionable knowledge to gain insight from tons of data being generated for saving lives, reducing medical errors, enhancing efficiency, reducing costs and making the whole world a healthy place. The book introduces techniques that developed using machine learning along with swarm intelligence in healthcare informatics. It also discusses one of the major applications of artificial intelligence: using machine learning to extract useful information from multimodal data optimally by using swarm intelligence. It reviews optimization methods that help to minimize the error in developing patterns and classifications, which further helps improve prediction and decision-making. The objective of this book is to use swarm intelligence and machine learning techniques for various medical issues such as diagnosing cancer, brain tumor, diabetic retinopathy, heart diseases as well as drug design and development. The book will act as one-stop reference to think and explore swarm intelligence and machine learning algorithms seriously for real-time patient diagnosis. Dr.Vijendra Pratap Singh,Dr.Attili Venkata Ramana, Mr.Neeraj Kumar ,Dr.Boddepalli Rajani The Internet of Things (IoT) has seen the eventual shift to the "Internet of Everything" in the recent years, unveiling its ubiquitous presence spanning from smart transports to smart healthcare, from smart education to smart shopping. With the 5G rollouts across the different countries of the world, it raises newer perspectives toward the integration of 5G in IoT. For IoT-based smart devices, 5G not only means speed, but also better stability, efficiency, and more secure connectivity. The reach of 5G in IoT is extending in multifarious areas like self-driving vehicles, smart grids for renewable energy, AI-enabled robots on factory floors, intelligent healthcare services . . . The endless list is the real future of 5G in IoT. Features: Fundamental and applied perspectives to 5G integration in IoT Transdisciplinary vision with aspects of Artificial Intelligence, Industry 4.0, and hands-on practice tools Discussion of trending research issues in 5G and IoT As 5G technologies catalyze a paradigm shift in the domain of IoT, this book serves as a reference for the researchers in the field of IoT and 5G, proffering the landscape to the trending aspects as well as the key topics of discussion in the years to come. By applying data analytics techniques and machine learning algorithms to predict disease, medical practitioners can more accurately diagnose and treat patients. However, researchers face problems in identifying suitable algorithms for pre-processing, transformations, and the integration of clinical data in a single module, as well as seeking different ways to build and evaluate models. The Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning is a pivotal reference source that explores the application of algorithms to making disease predictions through the identification of symptoms and information retrieval from images such as MRIs, ECGs, EEGs, etc. Highlighting a wide range of topics including clinical decision support systems, biomedical image analysis, and prediction models, this book is ideally designed for clinicians, physicians, programmers, computer engineers, IT specialists, data analysts, hospital administrators, researchers, academicians, and graduate and post-graduate students. From transportation to healthcare, IoT has been heavily implemented into practically every professional industry, making these systems highly susceptible to security breaches. Because IoT connects not just devices but also people and other entities, every component of an IoT system remains vulnerable to attacks from hackers and other unauthorized units. This clearly portrays the importance of security and privacy in IoT, which should be strong enough to keep the entire platform and stakeholders secure and smooth enough to not disrupt the lucid flow of communication among IoT entities. Applied Approach to Privacy and Security for the Internet of Things is a collection of innovative research on the methods and applied aspects of security in IoT-based systems by discussing core concepts and studying real-life scenarios. While highlighting topics including malware propagation, smart home vulnerabilities, and bio-sensor safety, this book is ideally designed for security analysts, software security engineers, researchers, computer engineers, data scientists, security professionals, practitioners, academicians, and students seeking current research on the various aspects of privacy and security within IoT. The ubiquitous nature of the Internet of Things allows for enhanced connectivity between people in modern society. When applied to various industries, these current networking capabilities create opportunities for new applications. Internet of Things and Advanced Application in Healthcare is a critical reference source for emerging research on the implementation of the latest networking and technological trends within the healthcare industry. Featuring in-depth coverage across the broad scope of the Internet of Things in specialized settings, such as context-aware computing, reliability, and healthcare support systems, this publication is an ideal resource for professionals, researchers, upper-level students, practitioners, and technology developers seeking innovative material on the Internet of Things and its distinct applications. Recent Advancement in Prodrugs Drugs used as medicines have many limitations like low chemical stability, aqueous solubility, or oral absorption/bioavailability, rapid presystemic metabolism, toxicity, inadequate site specificity, or poor patient acceptance/compliance (unwanted adverse effects, unacceptable taste or odor, irritation or pain). Prodrugs design is an approach to overcome these limitations. Key features Covers recent advancements in development of prodrugs Presents balanced synthesis and applications of prodrug chemistry Discusses broad spectrum of prodrug categories and outlines industrial applications Reviews prodrugs in cancer nanomedicine, its therapy and treatment Elucidates mathematical models to study the kinetics of prodrugs This book covers recent advances in the design of prodrugs. It contains all the significant recent examples of prodrug chemistry developments and will aid academics and researchers seeking to generate new projects in the field. This book comprises the proceedings of the International Conference on Machine Vision and Augmented Intelligence (MAI 2021) held at IIIT, Jabalpur, in February 2021. The conference proceedings encapsulate the best deliberations held during the conference. The diversity of participants in the event from academia, industry, and research reflects in the articles appearing in the volume. The book theme encompasses all industrial and non-industrial applications in which a combination of hardware and software provides operational guidance to devices in the execution of their functions based on the capture and processing of images. This book covers a wide range of topics such as modeling of disease transformation, epidemic forecast, COVID-19, image processing and computer vision, augmented intelligence, soft computing, deep learning, image reconstruction, artificial intelligence in healthcare, brain-computer interface, cybersecurity, and social network analysis, natural language processing, etc. Data has cemented itself as a building block of daily life. However, surrounding oneself with great quantities of information heightens risks to one’s personal privacy. Additionally, the presence of massive amounts of information prompts researchers into how best to handle and disseminate it. Research is necessary to understand how to cope with the current technological requirements. Large-Scale Data Streaming, Processing, and Blockchain Security is a collection of innovative research that explores the latest methodologies, modeling, and simulations for coping with the generation and management of large-scale data in both scientific and individual applications. Featuring coverage on a wide range of topics including security models, internet of things, and collaborative filtering, this book is ideally designed for entrepreneurs, security analysts, IT consultants, security professionals, programmers, computer technicians, data scientists, technology developers, engineers, researchers, academicians, and students. Smart Nanomaterials to Combat the Spread of Viral Infections comprises nanotechnology-based approaches with detailed preventive and treatment methodology for enabling their application in antiviral systems. This book discusses the role of metal nanoparticles in the treatment of and prevention of viral infections and nanotechnology advancements in antiviral coatings to combat affected surfaces. It also covers the use of nanomaterials for the efficient intracellular delivery of antiviral agents to disinfect and treat viral infections. This is a timely coverage of how nanotechnologies and materials as well as the utilization of artificial intelligence and Internet of things–based smart nano-systems are used to control and manage viral infections during the COVID-19 pandemic. Advances in smart research and future antimicrobial applications round out the book. This

book provides a comprehensive overview of smart nanomaterials and advanced nano-system applications to researchers and academics in virology, microbiology, chemistry, material science, nanotechnology, and biotechnology as well as those in industries interested in their virucidal properties to prevent viral infections. Encompasses the novel synthesis of nanostructures and cost-effective nanosystems from functional hybrid materials with special emphasis on their effective virucidal properties being biocompatible and economic Examines mechanisms of advanced nanomaterials as effective virucidal agents in disinfectants, coatings, treatment, and preventive approaches Discusses possible advancements and upcoming smart research in antimicrobial applications Offers timely coverage of SARS-CoV-2 pandemic management strategies This book addresses theories and empirical procedures for the application of machine learning and data mining to solve problems in cyber dynamics. It explains the fundamentals of cyber dynamics, and presents how these resilient algorithms, strategies, techniques can be used for the development of the cyberspace environment such as: cloud computing services; cyber security; data analytics; and, disruptive technologies like blockchain. The book presents new machine learning and data mining approaches in solving problems in cyber dynamics. Basic concepts, related work reviews, illustrations, empirical results and tables are integrated in each chapter to enable the reader to fully understand the concepts, methodology, and the results presented. The book contains empirical solutions of problems in cyber dynamics ready for industrial applications. The book will be an excellent starting point for postgraduate students and researchers because each chapter is design to have future research directions. Water And Its Industrial Applications | Fuels And Combustion | Lubricants | Cement And Refractories| Polymers | Instrumental Techniques In Chemical Analysis | Water Analysis Techniques | Question Bank The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country.In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University.It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable. Technological advances in thermal imaging have had far-reaching impacts on the fields of biology and medicine. By studying the diverse applications in thermal imaging, significant contributions can be made in modern life sciences. Innovative Research in Thermal Imaging for Biology and Medicine is a thorough reference source that offers in-depth discussions on emerging advancements in thermal imaging techniques and provides interdisciplinary perspectives on its diverse applications. Highlighting relevant topics such as microvascular imaging, vascular optics, body cryotherapy, and myofascial trigger points, this publication is ideal for all academicians, graduate students, practitioners, and researchers who are interested in studying the latest advances in thermal imaging as it relates to medicine and biology. 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. This first volume of the Handbook of Biodiesel and Petrodiesel Fuels presents a representative sample of the population papers in the field of biodiesel fuels in general. Part I provides an overview of the research field on both biodiesel and petrodiesel fuels highlighting primary and secondary research fronts in these fields. Part II presents a representative sample of the population papers in the field of biooils covering major research fronts. The research on the biooils is a fundamental part of the research on the biodiesel fuels. The research in this field has intensified in recent years with the application of advanced catalytic technologies and nanotechnologies in both production and upgrading of biooils. It covers pyrolysis, hydrothermal liquefaction, and upgrading, and characterization and properties of biooils besides an overview of the research field. Part III presents a representative sample of the population papers in the field of biodiesel fuels in general covering major research fronts. The research in this field has progressed in the lines of production, properties, and emissions of biodiesel fuels. As in the case of biooils, catalysts and additives play a crucial role for the biodiesel fuels. It covers biomass-based catalyst-assisted biodiesel production, enzymatic biodiesel production, additives in biodiesel production, properties, characterization, performance, and policies of biodiesel fuels besides an overview of the research field. Part IV presents a representative sample of the population papers in the field of glycerol, biodiesel waste, covering major research fronts. The research in this field has intensified in recent years with the increasing volume of biodiesel fuels, creating eco-friendly solutions for these wastes of biodiesel fuels for producing valuable biofuels and biochemicals from glycerol. It covers biohydrogen and propanediol production from glycerol as a case study for bioenergy and biochemicals, respectively. This book will be useful to academics and professionals in the fields of Energy Fuels, Chemical Engineering, Physical Chemistry, Biotechnology and Applied Microbiology, Environmental Sciences, and Thermodynamics. Ozcan Konur is both a materials scientist and social scientist by training. He has published around 200 journal papers, book chapters, and conference papers. He has focused on the bioenergy and biofuels in recent years. In 2018, he edited Bioenergy and Biofuels, which brought together the work of over 30 experts in their respective field. He also edited the Handbook of Algal Science, Technology, and Medicine with a strong section on the algal biofuels in 2020. The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings ofthe Second International Conference on Computer Science and InformationTechnology, CCSIT 2012, held in Bangalore, India, in January 2012. The 55 revised full papers presented in this volume were carefully reviewed andselected from numerous submissions. The papers are organized in topical sectionson advances in computer science and information technology; and ad hoc andubiquitous computing. Bendable wearable materials like conductive strands, fluid metallic mixes, and polymer in paper are generally utilized as a part of the current adaptable electronic gadgets. Extra necessities are implemented in wearable applications. Characteristic elastic, for example, is an appealing exchange adaptable material that is biocompatible and offers high conductivity, low lost, simplicity to make, and most importantly, it is water/climate safe and condition amicable. The wearable antenna is one of the key components to establish body area network (BAN) for wireless communication, which is why it has become such an important part of antenna research. Wearable antennas are being applied successfully in various parts of life such as health monitoring, physical training, navigation, RFID, medicine, military, and more. Emerging Materials and Advanced Designs for Wearable Antennas explores how wearable antenna technology is being employed to enhance the quality of life in various industries. The technologies implemented and success of these antenna technologies is essential in the emerging field of wearable computing and is discussed in detail within the contents of this book. While covering essential topics such as the optimization of antenna material, improvement in flexible antenna performance, synthesis and design aspects of antennas, and transmission and receiving of the bendable antenna, this book is ideal for the military field, scientists, the medical field, practitioners, stakeholders, researchers, academicians, and students looking for the most advanced and updated research on the technology and implementation of wearable antennas spanning multiple industries. Engineering Mathematics II: For RGPV is designed as per the specific requirements of the third-semester paper offered in the BE/B. Tech syllabus of Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV). Through a balanced mix of theory and solved problems, this book focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed for engineers. Nowadays, raw biological data can be easily stored as databases in computers but extracting the required information is the real challenge for researchers. For this reason, bioinformatics tools perform a vital role in extracting and analyzing information from databases. Bioinformatics Tools and Big Data Analytics for Patient describes the applications of bioinformatics, data management, and computational techniques in clinical studies and drug discovery for patient care. The book gives details about the recent developments in the fields of artificial intelligence, cloud computing, and data analytics. It highlights the advances in computational techniques used to perform intelligent medical tasks. Features: Presents recent developments in the fields of artificial intelligence, cloud computing, and data analytics for improved patient care. Describes the applications of bioinformatics, data management, and computational techniques in clinical studies and drug discovery. Summarizes several strategies, analyses, and optimization

methods for patient healthcare. Focuses on drug discovery and development by cloud computing and data-driven research The targeted audience comprises academics, research scholars, healthcare professionals, hospital managers, pharmaceutical chemists, the biomedical industry, software engineers, and IT professionals. Knowledge in its pure state is tacit in nature—difficult to formalize and communicate—but can be converted into codified form and shared through both social interactions and the use of IT-based applications and systems. Even though there seems to be considerable synergies between the resulting huge data and the convertible knowledge, there is still a debate on how the increasing amount of data captured by corporations could improve decision making and foster innovation through effective knowledge-sharing practices. Big Data and Knowledge Sharing in Virtual Organizations provides innovative insights into the influence of big data analytics and artificial intelligence and the tools, methods, and techniques for knowledge-sharing processes in virtual organizations. The content within this publication examines cloud computing, machine learning, and knowledge sharing. It is designed for government officials and organizations, policymakers, academicians, researchers, technology developers, and students. As technology continues to develop, the healthcare industry must adapt and implement new technologies and services. Recent advancements, opportunities, and challenges for bio-medical image processing and authentication in telemedicine must be considered to ensure patients receive the best possible care. Advancements in Bio-Medical Image Processing and Authentication in Telemedicine introduces recent advancements, opportunities, and challenges for bio-medical image processing and authentication in telemedicine and discusses the design of high-accuracy decision support systems. Covering key topics such as artificial intelligence, medical imaging, telemedicine, and technology, this premier reference source is ideal for medical professionals, nurses, policymakers, researchers, scholars, academicians, practitioners, instructors, and students. Engineering Mathematics I: For RGPV is designed as per the specific requirements of the first and second semester paper offered in the BE/B. Tech syllabus of Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV). Through a balanced mix of theory and solved problems, this book focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed for engineers. The growth of Internet use and technologies has increased exponentially within the business sector. When utilized properly, these applications can enhance business functions and make them easier to perform. Exploring the Convergence of Big Data and the Internet of Things is a pivotal reference source featuring the latest empirical research on the business use of computing devices to send and receive data in conjunction with analytic applications to reduce maintenance costs, avoid equipment failures, and improve business operations. Including research on a broad range of topics such as supply chain, aquaculture, and speech recognition systems, this book is ideally designed for researchers, academicians, and practitioners seeking current research on various technology uses in business. In a world where the safety of women remains a pressing issue, the intersection of artificial intelligence (AI) and emerging technologies is a motivating force. Despite strides toward gender equality, women continue to face threats, harassment, and violence, necessitating innovative solutions. Traditional approaches fall short of providing comprehensive protection, prompting the exploration of innovative technologies to address these challenges effectively. Wearable Devices, Surveillance Systems, and AI for Women's Wellbeing emerges as a timely and indispensable solution to the persistent safety issues faced by women globally. This persuasive book not only articulates the problems women encounter but also presents groundbreaking solutions that harness the transformative potential of AI. It delves into the intricate ways AI applications, from mobile safety apps to predictive analytics, can be strategically employed to create a safer and more inclusive society for women.

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