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Adversarial Networks and Deep Learning, The Internet of Everything, Essentials of Pharmaceutical Engineering, Smart Sensors Measurements and Instrumentation, International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018, Authorization and Access Control, Smart Technologies for Energy, Environment and Sustainable Development, Advances in Data and Information Science, Metaheuristic Algorithms in Industry 4.0, Information, Communication and Computing Technology, Cyber Security, Privacy and Networking, Fundamentals of Data Science

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Fundamentals of Data Science is designed for students, academicians and practitioners with a complete walkthrough right from the foundational groundwork required to outlining all the concepts, techniques and tools required to understand Data Science. Data Science is an umbrella term for the non-traditional techniques and technologies that are required to collect, aggregate, process, and gain insights from massive datasets. This book offers all the processes, methodologies various steps like data acquisition, pre-process, mining, prediction, and visualization tools for extracting insights from

vast amounts of data by the use of various scientific methods, algorithms, and processes. Readers will learn the steps needed to create the application with SQL, NoSQL, Python, R, Matlab, Octave and Tableau. This book provides a stepwise approach to building solutions to data science applications right from understanding the fundamentals, performing data analytics, and writing source code. All the concepts are discussed in simple English to help the community to become Data Scientists with much pre-requisite knowledge. Features : Simple strategies for developing statistical models that analyze data and detect patterns, trends, and relationships in data sets. Complete roadmap to Data Science approach with dedicated sections which includes Fundamentals, Methodology and Tools. Focused approach for learning and practicing various Data Science Tools with sample code and examples for practice. Information is presented in an accessible way for students, researchers, and academicians and professionals. Ternary digital system is commonly known as three-valued digital system. Three-valued logic is an elementary set of Multiple Valued Logic, which is introduced in the book at the beginning. The book provides a detailed overview of every concept required for the design and applications of ternary circuits. It covers basic concepts for ternary logic fundamentals, ternary logic gates, its logic gate truth tables, Boolean rules for ternary up to ternary logic families, function synthesis and minimization techniques and applications like one trit T-ALU, Two trit T-ALU Slice, Ternary R-S and D memory elements and an analog to ternary converter for DSP application as a fundamental block are developed and simulated.

using EDA tool. Finally computer simulation using EDA (Electronic Design Automation) tools like Tanner, spice and VHDL is also illustrated. In the first half of 19<sup>th</sup> century G.Boole have proposed the Algebra for two valued (Binary logic) system after that Shanon has expressed the behavior of electrical switches in terms of Boolean algebra and he paved the way for a ramp to an industrial development that is recognized as initiating one of the most revolutionary economic changes in history. MVL is also known as Multi-Valued, Multiple-Valued or Many-Valued logic. Multi-Value logic is regarded as a switch with more than two states. Such as a 3- value switch with states '0', '1' and '2'. Or a 4-value switch with states '0', '1', '2' and '3'. In case of 3-Valued logic the term ternary logic is used and term quaternary logic for 4-Valued logic. Alexander (1964) showed that the most efficient radix for implementation of switching systems is the natural base ( $e \approx 2.71828$ ), it seems likely that the best integral radix is 3 rather than 2. It should be noted that this book emphasizes on Ternary logic with concepts and applications. The fundamental work on Multiple Valued Logic (MVL) System was done by E.L.Post in the beginning of the 19<sup>th</sup> centuries and based on that work P.C.Rosen Bloom modeled the Algebra for MVL is called Post Algebra. This book constitutes the refereed proceedings of the Second International Conference on Information, Communication and Computing Technology, ICICCT 2017, held in New Delhi, India, in May 2017. The 29 revised full papers and the 5 revised short papers presented in this volume were carefully reviewed and selected from 219 submissions. The papers are organized in topical sections on network systems and communication security;

software engineering; algorithm and high performance computing. This book focuses on various authorization and access control techniques, threats and attack modeling, including an overview of the Open Authorization 2.0 (OAuth 2.0) framework along with user-managed access (UMA) and security analysis. Important key concepts are discussed regarding login credentials with restricted access to third party with a primary account as a resource server. A detailed process overview and authorization process, along with security analysis of OAuth 2.0, are also discussed in the book. Case studies of websites with vulnerability issues are included.

**FEATURES**

- Provides an overview of the security challenges of IoT and mitigation techniques with a focus on authorization and access control mechanisms
- Discusses a behavioral analysis of threats and attacks using UML based modeling
- Covers the use of the OAuth 2.0 Protocol and UMA for connecting web applications
- Includes role-based access control (RBAC), discretionary access control (DAC), mandatory access control (MAC) and permission-based access control (PBAC)
- Explores how to provide access to third-party web applications through a resource server by use of a secured and reliable OAuth 2.0 framework

This book is for researchers and professionals who are engaged in IT security, auditing and computer engineering.

**Elementary Engineering Hydrology** is a textbook for undergraduate and diploma students of civil engineering. It provides a comprehensive coverage of all the essential aspects of hydrology. To make it easy for students to grasp the concepts, all important topics have been divided into sub-topics, lending clarity to the subject matter. The text is interspersed with

numerous figures and tables, and a wide range of solved problems to illustrate the underlying concepts and techniques effectively. Simple and comprehensible for beginners in the course, this book also contains a host of additional information by way of appendices, including India's National Water Policy, water resources of India and also a guide to using survey maps. These features of the book will make it an invaluable reference book for practicing engineers as well. The book is a collection of papers presented at First Doctoral Symposium on Natural Computing Research (DSNCR 2020), held during 8 August 2020 in Pune, India. The book covers different topics of artificial and natural computing methods having applications in physical sciences and engineering. The book focuses on computer vision and applications, soft computing, security for Internet of Things, security in heterogeneous networks, signal processing in intelligent transportation system, VLSI design and embedded systems, privacy and confidentiality, big data and cloud computing, bioinformatics and systems biology, remote healthcare, software security, mobile and pervasive computing, biometrics-based authentication, natural language processing, analysis and verification techniques, large scale networking, distributed systems, digital forensics, and human-computer interaction. This book explores how to use generative adversarial networks in a variety of applications and emphasizes their substantial advancements over traditional generative models. This book's major goal is to concentrate on cutting-edge research in deep learning and generative adversarial networks, which includes creating new tools and methods for processing text, images, and audio. A Generative Adversarial



Network (GAN) is a class of machine learning framework and is the next emerging network in deep learning applications. Generative Adversarial Networks (GANs) have the feasibility to build improved models, as they can generate the sample data per application requirements. There are various applications of GAN in science and technology, including computer vision, security, multimedia and advertisements, image generation, image translation, text-to-images synthesis, video synthesis, generating high-resolution images, drug discovery, etc.

Features: Presents a comprehensive guide on how to use GAN for images and videos. Includes case studies of Underwater Image Enhancement Using Generative Adversarial Network, Intrusion detection using GAN Highlights the inclusion of gaming effects using deep learning methods Examines the significant technological advancements in GAN and its real-world application. Discusses as GAN challenges and optimal solutions The book addresses scientific aspects for a wider audience such as junior and senior engineering, undergraduate and postgraduate students, researchers, and anyone interested in the trends development and opportunities in GAN and Deep Learning. The material in the book can serve as a reference for libraries, accreditation agencies, government agencies, and especially the academic institution of higher education intending to launch or reform their engineering curriculum Having basic knowledge on all the concepts of Chemistry for engineering students is a must need, it makes them as a professional and expert engineer in various design and material fields, along with the usage of available resources. Hence, both government & private universities, small institutes include

Engineering Chemistry Subject in 1st semester to provide a basic understanding of the chemical engineering. The purpose of this textbook is to present an introduction to the subject Engineering Chemistry of Bachelor of Engineering (BE) Semester-I. The book contains the syllabus from basics of the subjects going into the complexities of the subjects. All the concepts have been explained with relevant examples and diagrams to make it interesting for the readers. An attempt is made here by the experts of TMC to assist the students by providing Study text as per the curriculum with non-commercial considerations. We owe to many websites and their free contents; we would like to specially acknowledge contents of website [www.wikipedia.com](http://www.wikipedia.com) and various authors whose work formed the basis for this book. We acknowledge our thanks to them. At the end we would like to say that there is always room for improvement in whatever we do. We would appreciate any suggestions regarding this study material from the readers so that the contents can be made more interesting and meaningful. Readers can email their queries and doubts to [tmcnagpur@gmail.com](mailto:tmcnagpur@gmail.com). We shall be glad to help you immediately. This new volume offers a variety of perspectives from investigators, industry professionals, stakeholders, and economic strategists that look at new ways of solving optimization problems related to different industrial sectors. Case studies relay how optimization methods deal with both operative conditions in process industries and in service industries. The volume also explores emerging research areas toward the implementation of optimization algorithms for enhancement of system performance as well as system

effectiveness. The book explores the role of optimization methods in engineering applications in industrial and mechanical engineering as well as in the fields of healthcare/medicine, food production, oil, textiles, energy, and agriculture. The volume offers new ways of solving optimization problems related to different industrial sectors, incorporating mathematical formulation for particular design problems and thus aiding the selection of the optimal design among many alternatives. It shows optimization methods that deal with operative conditions both in process and in service industries. A unique advantage of this volume is its wide range of topics in different engineering domains using novel mathematical modeling-based optimization methods for solving the real-life problems. The array of examples and case studies of the effective use of optimization in diverse areas of engineering include healthcare analysis and monitoring (fetal phonocardiography), medical device design (3D printing design for prostheses), agriculture/farming (monitoring climate conditions), environmental science (waste management), automotive and aeronautic design, industrial manufacturing, solar energy, and more. Key features: Presents case studies on optimization problems related to industry Discusses case studies on operations management practices optimization Provides overview of design optimization Highlights case studies on process optimization Assesses different techniques for handling engineering problems This valuable book will be useful for researchers, scientists, faculty, and students involved or interested in the field of optimization engineering in industrial design. ?ABOUT THE BOOK: Power Plant Engineering is a

fast developing Branch of mechanical Engineering & its study is essential for the successful execution & maintenance of several mechanical Engineering Works. The author has made an earnest attempt to bring out a book on the subject which will be recognized as a complete text book in all respects.

**OUTSTANDING FEATURES:** -All topics included in the chapters have been thoroughly described. -Every topic has been written in most logical sequence maintaining the natural flow to keep the students interested. -Topics of applications of Power plant engineering have been developed in sequence. The students would be able to get the fundamental concept about all topics included in power plant engineering upto the final year in mechanical engineering, -A large number of solved problems on different topics are included. -Numerical problems with answers, as well as theoretical questions have been included for the students to practice. -The coverage of topics in the book is based on syllabi of universities in Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Maharashtra, Punjab and West Bengal & other major universities. -Clear & simple figures have been included in each chapter for better understanding & also to enable students to draw / reproduce these in the examination easily. -In the entire book SI system of units is used.

**RECOMMENDATIONS:** A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations

**ABOUT THE AUTHOR:** G.K. PATHAK M.E., Senior Faculty Member, MIT-Pune-38 & D.K. CHAVAN B.E.(Mech.) Chartered Engineer Professor In Mechanical Engg Department M.M.M College Of Engineering Pune-52

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[www.standardbookhouse.com](http://www.standardbookhouse.com) A venture of Rajsons Group of

Companies The book focuses on how machine learning and

Internet of Things (IoT) has empowered the advancement of

information driven arrangements including key concepts and

advancements. Ontologies that are used in heterogeneous

environments have been discussed including interpretation,

context awareness, analyzing various data sources, machine

learning algorithms and intelligent services and applications

Further, it includes unsupervised and semi-supervised machine

learning techniques with study of semantic analysis and

thorough analysis of reviews. Divided into sections such as

machine learning, security, IoT and data mining, the concepts

are explained with practical implementation including results

Key Features Follows an algorithmic approach for data

analysis in machine learning Introduces machine learning

methods in applications Address the emerging issues in

computing such as deep learning, machine learning, Internet

Things and data analytics Focuses on machine learning

techniques namely unsupervised and semi-supervised for

unseen and seen data sets Case studies are covered relating

human health, transportation and Internet applications

Currently, informatics within the field of public health is a

developing and growing industry. Clinical informatics are used

in direct patient care by supplying medical practitioners with information that can be used to develop a care plan. Intelligent applications in clinical informatics facilitates with the technology-based solutions to analyze data or medical images and help clinicians to retrieve that information. Decision models aid with making complex decisions especially in uncertain situations. The Handbook of Research on Applied Intelligence for Health and Clinical Informatics is a comprehensive reference book that focuses on the study of resources and methods for the management of healthcare infrastructure information. This book provides insights on how applied intelligence with deep learning, experiential learning, and more will impact healthcare and clinical information processing. The content explores the representation, processing, and communication of clinical information in natural and engineered systems. This book covers a range of topics including applied intelligence, medical imaging, telehealth, and decision support systems, and also looks at technologies and tools used in the detection and diagnosis of medical conditions such as cancers, diabetes, heart disease, lung disease, and prenatal syndromes. It is an essential reference source for diagnosticians, medical professionals, imaging specialists, data specialists, IT consultants, medical technologists, academic researchers, industrial experts, scientists, and students. The book mainly aims in guiding the teachers and students, the fundamental principles of Pharmaceutical Engineering. This book helps the students in overcoming the obstacles faced by them in understanding the aspects of Pharmaceutical Engineering. Topics, which usually confuse the students, are

explained along with applications to broaden their mental horizon regarding the subject. This book is meant to serve as an introductory text for undergraduate students doing Bachelor of Pharmaceutical Sciences (B. Pharm). It will also prove useful for people working in pharmaceutical and allied industries. In keeping with its initiatory approach to pharmaceutical engineering, only the important aspects of the subject have been discussed in a simple and easily comprehensible manner. The book is written for an undergraduate course on the Basic Electrical Engineering. It provides comprehensive explanation of theory and practice of electrical engineering. It elaborates on various aspects of d.c. and a.c. circuit analysis, magnetic circuits, measuring instruments, single phase transformers and various electrical machines. The book starts with the concept of electric charge, current and potential difference. It explains Kirchhoff's laws, star-delta transformation, mesh analysis and node analysis. It also covers the application of various network theorems in analyzing d.c. circuits. The book incorporates a detailed discussion of steady state analysis of single-phase and parallel a.c. circuits along with the resonance. The book also explains the three phase balanced circuits, three phase power measurement and power factor improvement. The stepwise techniques and stepwise methods used to explain the phasor diagrams is the feature of the book. The book teaches the use of various electrical measuring instruments. The book also covers the concept of earthing and electrical safety, which is most important while dealing with the electrical equipment. The book also includes the discussion of magnetic circuits, and mutual inductances and magnetic hysteresis. The book

further explains the details of single-phase transformers and various electrical machines such as d.c. machines, three phase and single-phase induction motors and synchronous machines. The brief introduction of power system is also incorporated in the book. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make understanding easy. All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the basic electrical engineering in the students. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting. The book covers all the aspects of Basic Electrical and Instrumentation Engineering for undergraduate course. Various concepts of three phase a.c. circuit analysis with balanced and unbalanced loads, tariff and power factor improvement, single phase and three phase transformers, d.c. machines, single phase and three phase induction motors, alternators, synchronous motors, and of measuring instruments and transducers are explained in the book with the help of comprehensive approach. The book starts with explaining the three phase a.c. circuit analysis with balanced and unbalanced loads, concept of transmission, distribution and power system protection. The discussion on tariff and power factor improvement is also added in support. The book further explains single phase and three phase transformers. Then book provides the detailed discussion on generators and motors. The book also includes the discussion



three phase and single phase induction motors, synchronous generators, synchronous motors and other motors such as stepper motor, brushless d.c. motor and universal motor. The book covers the classification and basic requirements of a measuring instrument. Then the book explains the static and dynamic characteristics and types of errors in measuring instruments. The book provides in depth discussion of electronic multimeter and oscilloscope. The book teaches the details of various types of transducers like resistive, inductive, capacitive, thermoelectric, piezoelectric, photoelectric and Hall effect transducers. The book uses plain, simple and lucid language to explain each topic. Each chapter gives the conceptual knowledge about the topic dividing it in the various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting. The two-volume set CCIS 827 and constitutes the thoroughly refereed proceedings of the Third International Conference on Next Generation Computing Technologies, NGCT 2017, held in Dehradun, India, in October 2017. The 135 full papers presented were carefully reviewed and selected from 948 submissions. There were organized in to sections named: Smart and Innovative Trends in Communication Protocols and Standards; Smart and Innovative Trends in Computational Intelligence and Data Science; Smart and Innovative Trends in Image Processing and Machine Vision; Smart Innovative Trends in Natural Language Processing for Indian Languages; Smart Innovative Trends in

Security and Privacy. This book presents the know-how of real-time IoT application development activity including a basic understanding of the IoT architecture, use cases, smart computing, and the associated challenges in design and development of the IoT system. All the technical details related to protocol stack, technologies, and platforms used for the implementation are explained. It further includes techniques and case studies that include smart computing on the IoT-Cloud models along with test beds for experimentation purposes. The book aims at setting up the groundwork for creation of applications that can help make day-to-day tasks simpler by meeting the needs of varied sectors like education, health care, agriculture, and so forth. Features:

- Covers IoT cloud convergence with a focus on complex industrial IoT case studies.
- Discusses the broad background of IoT-Cloud convergence architectures and its fundamentals along with resource provisioning mechanisms.
- Emphasizes the use of context in developing context-aware IoT solutions.
- Presents a novel C-model that explains the IoT application development phases.
- Discusses a simplified convergence model that defines the role of Cloud in an IoT application.

This book aims at graduate students, researchers, and professionals getting started in the IoT field. This book discusses data communication and computer networking, communication technologies and the applications of IoT (Internet of Things), big data, cloud computing and healthcare informatics. It explores, examines, and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT. Aimed at researchers and academicians who need to

understand the importance of data communication and advanced technologies in IoT, it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area, highlighting various innovative ideas for future research. This book contains select proceedings of the International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEESD 2020). The book is broadly divided into the themes of energy, environment, and sustainable development; and discusses the significance and solicitations of intelligent technologies in the domain of energy and environmental systems engineering. Topics covered in this book include sustainable energy systems including renewable technologies, energy efficiency, techno-economics of energy system and policies, integrated energy system planning, environmental management, energy efficient buildings and communities, sustainable transportation, smart manufacturing processes. The book will be a valuable reference for young researchers, professionals, and policy makers working in the areas of energy, environment and sustainable development. Considering the overall situation of the current pandemic and pertinent recommendations, this book focuses on the use of augmented reality (AR) applications for preventing COVID-19 outbreaks along with techniques, tools, and platforms to achieve social distancing and sanitization. COVID-19 Public Health Measures: An Augmented Reality Perspective contains theoretical and practical knowledge of AR and remedies on how to cope with the pandemic, including multiple use cases along with a set of recommendations. This book illustrates applic

building using open-source software with an interactive interface to aid impaired users. The initial part of this book emphasizes the basic knowledge of AR, technology, devices, and the rest of the relevant theories. This book is aimed at research students of AR, technical healthcare professionals, and practitioners. Key Features:

- Consists of an extensive introduction to the terminologies and components of AR
- Provides in-depth knowledge of various tools and techniques used in AR
- Introduces various platforms and software development kits (SDKs) such as Unity Engine, Unreal Engine, and Vuforia
- Gives a step-by-step guide for the development of an AR app
- Describes how AR can be used specifically by impaired users not only in the situation of current pandemic but also in normal situations thus simplifying day-to-day activities

This book provides an essential overview of IoT, energy-efficient topology control protocols, motivation, and challenges for topology control for Wireless Sensor Networks, and the scope of the research in the domain of IoT. Further, it discusses the different design issues of topology control and energy models for IoT applications, different types of simulators with their advantages and disadvantages. It also discusses external simulation results and comparative analysis for various algorithms. The key point of this book is to present a solution to minimize energy and extend the lifetime of IoT networks using optimization methods to improve the performance. Features:

- Describes various facets necessary for energy optimization in the IoT domain. Covers all aspects to achieve energy optimization using latest technologies and algorithms, in wireless sensor networks. Presents various IoT and Topology Control Methods

and protocols, various network models, and model simulation using MATLAB®. Reviews methods and results of optimization with Simulation Hardware architecture leading to prolonged life of IoT networks. First time introduces bio-inspired algorithms in the IoT domain for performance optimization. This book aims at Graduate Students, Researchers in Information Technology, Computer Science and Engineering, Electronics and Communication Engineering. This book gathers a collection of high-quality peer-reviewed research papers presented at the 3rd International Conference on Data and Information Sciences (ICDIS 2021), held at Raja Balwan Singh Engineering Technical Campus, Agra, India, on May 14 – 15, 2021. In chapters written by leading researchers, developers, and practitioner from academia and industry, it covers virtually all aspects of computational sciences and information security, including central topics like artificial intelligence, cloud computing, and big data. Highlighting the latest developments and technical solutions, it will show readers from the computer industry how to capitalize on key advanced next-generation computer and communication technology. This book extends the work from introduction of ubiquitous computing, to the Internet of things to security and to privacy aspects of ubiquitous computing. The uniqueness of this book is the combination of important fields like the Internet of things and ubiquitous computing. It assumes that the readers' goal is to achieve a complete understanding of IoT, smart computing, security issues, challenges and possible solutions. It is not oriented towards any specific use cases and security issues. Privacy threats in ubiquitous computing problems are discussed.

across various domains. This book is motivating to address privacy threats in new inventions for a wide range of stakeholders like layman to educated users, villages to metropolises and national to global levels. This book contains numerous examples, case studies, technical descriptions, scenarios, procedures, algorithms and protocols. The main endeavour of this book is threat analysis and activity modelling of attacks in order to give an actual view of the ubiquitous computing applications. The unique approach will help readers for a better understanding. Due to increasing demand for potable and irrigation water, new scientific research is being conducted to deal with wastewater from a variety of sources. Novel Water Treatment and Separation Methods: Simulation of Chemical Processes presents a selection of research related to application of chemical processes for wastewater treatment, separation techniques, and modeling and simulation of chemical processes. Among the many topics are: degradation of herbicide removal of anionic dye efficient sun-light driven photocatalysis removal of copper and iron using green activated carbon defluoridation of drinking water removal of calcium and magnesium from wastewater using ion exchange resins degradation of vegetable oil refinery wastewater novel separation techniques, including microwave-assisted extraction and more. The volume presents selected examples in wastewater treatment, highlighting some recent examples of processes such as photocatalytic degradation, emulsion liquid membrane, novel photocatalyst degradation of various pollutants, and adsorption of heavy metals. The book goes on to explore some novel separation techniques, such as microwave-assisted extraction, anhydrous

ethanol through molecular sieve dehydration, batch extract from leaves of *Syzygium cumini* (known as jambul, jambolan, jamblang or jamun), and reactive extraction. These novel separation techniques have proved to be advantageous over conventional methods. The volume also looks at modeling and simulation of chemical processes, including chapters on flow characteristics of novel solid-liquid multistage circulating fluidized bed, mathematical modeling and simulation of gasketed plate heat exchangers, optimization of the adsorption capacity of prepared activated carbon, and modeling of ethanol/water separation by pervaporation, along with topic simulation using CHEMCAD software. The diverse chapters share and encourage new ideas, methods, and applications of ongoing advances in this growing area of chemical engineering and technology. It will be a valuable resource for researchers and faculty and industrialists as well as for students. "This book focuses on various authorization and access control techniques, threats and attack modelling including overview of open Authorization 2.0 (Oauth2.0) framework along with User managed access (UMA) and security analysis. Important key concepts are discussed on how to provide login credentials, restricted access to third parties with primary account as resource server. Detailed protocol overview and authorization process along with security analysis of Oauth 2.0 is discussed in this book. This book also includes case studies of websites vulnerability issues. Features: provides overview of security challenges of IoT and mitigation techniques with a focus on authorization and access control mechanisms, discusses behavioral analysis of threats and attacks using UML base

modelling, covers use of Oauth2.0 Protocol and UMA for connecting web applications, includes Role Based Access Control (RBAC), Discretionary Access Control (DAC), Mandatory Access Control (MAC), and Permission Based Access Control (PBAC). and explores how to provide access to third party web applications through resource server by using a secured and reliable Oauth2.0 framework. This book aims at researchers and professionals in IT Security, Auditing, and Computer Engineering"-- This book presents the select proceedings of Control Instrumentation and System Conference, (CISCON 2020) held at Manipal Institute of Technology, MAHE, Manipal. It examines a wide spectrum covering the latest trends in the fields of instrumentation, sensors and systems, and industrial automation and control. The topics covered include image and signal processing, robotics, renewable energy, power systems and power drive performance attributes of MEMS, multi-sensor data fusion, machine learning, optimization techniques, process control, safety monitoring, safety critical control, supervisory control system modeling and virtual instrumentation. The book is a valuable reference for researchers and professionals interested in sensors, adaptive control, automation and control and all fields. In the era before IoT, the world wide web, internet, v 2.0 and social media made people's lives comfortable by providing web services and enabling access to personal data irrespective of their location. Further, to save time and improve efficiency, there is a need for machine to machine communication, automation, smart computing and ubiquitous access to personal devices. This need gave birth to the



phenomenon of Internet of Things (IoT) and further to the concept of Internet of Everything (IoE). This book aims to present different aspects of IoE, challenges faced by IoE and applications, divided into 8 chapters. This multifaceted coverage of the various verticals and IoT layers is the main attraction of this book. VANET (vehicular ad hoc network) is a subgroup of MANET (mobile ad hoc network). It enables communication among vehicles on the road and between related infrastructure. This book addresses the basic elements of VANET along with components involved in the communication with their functionalities and configurations. It contains numerous examples, case studies, technical descriptions, scenarios, procedures, algorithms, and protocols, and addresses the different services provided by VANET with the help of a scenario showing a network tackling an emergency. Features:

- Covers all important concepts of VANET for beginners and different road scenarios in VANET
- Covers essential communication protocols in VANET
- Introduces approaches for VANET implementation using simulators
- Provides a classification of messages and a priority-based message forwarding strategy

This book is aimed at undergraduates, postgraduates, industry, researchers, and research scholars in information and communications technology. This book proposes new technologies and discusses future solutions in ICT design infrastructures, as reflected in high-quality papers presented at the 6th International Conference on ICT for Sustainable Development (ICT4SD 2021), held in Goa, India, on 5–6 August 2021. The book covers the topics such as big data and data mining, data fusion, IoT programming toolkits and

frameworks, green communication systems and network, u  
ICT in smart cities, sensor networks and embedded system  
network and information security, wireless and optical  
networks, security, trust, and privacy, routing and control  
protocols, cognitive radio and networks, and natural language  
processing. Bringing together experts from different countries  
the book explores a range of central issues from an  
international perspective. This book covers selected high-quality  
research papers presented in the International Conference  
Cyber Security, Privacy and Networking (ICSPN 2021),  
organized during 17-19 September 2021 in India in Online  
mode. The objectives of ICSPN 2021 is to provide a premier  
international platform for deliberations on strategies, recent  
trends, innovative approaches, discussions and presentation  
the most recent cyber security, privacy and networking  
challenges and developments from the perspective of providing  
security awareness and its best practices for the real world.  
Moreover, the motivation to organize this conference is to  
promote research by sharing innovative ideas among all levels  
of the scientific community, and to provide opportunities to  
develop creative solutions to various security, privacy and  
networking problems. The book is written for an undergraduate  
course on the Feedback Control Systems. It provides  
comprehensive explanation of theory and practice of control  
system engineering. It elaborates various aspects of time domain  
and frequency domain analysis and design of control systems.  
Each chapter starts with the background of the topic. Then  
gives the conceptual knowledge about the topic dividing it into  
various sections and subsections. Each chapter provides the

detailed explanation of the topic, practical examples and various solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book starts with explaining various types of control systems. Then it explains how to derive the mathematical models of various types of systems such as electrical, mechanical, thermal and liquid level systems. The book includes good coverage of the block diagram and signal flow graph methods of representing the various systems and the reduction methods to obtain simple system from the analysis point of view. The book further illustrates the steady state and transient analysis of control systems. The book covers the fundamental knowledge of controllers used in practice to optimize the performance of the systems. The book emphasizes the detailed analysis of second order systems as these systems are common in practice and higher order systems can be approximated as second order systems. The book teaches the concept of stability and time domain stability analysis using Routh-Hurwitz method and root locus method. It further explains the fundamentals of frequency domain analysis of systems including co-relation between time domain and frequency domain. The book gives very simple techniques for stability analysis of the systems in the frequency domain, using Bode plot, Polar plot and Nyquist plot methods. It also explains the concepts of compensation and design of the control systems in time domain and frequency domain. The classical approach loses the importance of initial conditions in the systems. The book provides the detailed explanation of modern approaches.

of analysis which is the state variable analysis of the system including methods of finding the state transition matrix, solution of state equation and the concepts of controllability and observability. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the design and analysis of the control systems in the students. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

**ABOUT THE BOOK:** This introductory text is intended for first year students of Engineering. Here we will study three main topics (i) Thermodynamic principles (ii) Design Consideration (iii) Manufacturing processes. The knowledge and clear understanding of all these basics is essential to all branches of engineering.

**OUTSTANDING FEATURES:** This book is written in a very lucid language which makes it understandable to every type of student. The students should know how much and what should be written in the examinations. Contains various illustrative examples. The book covers the syllabus of all major universities. Consists of clear and self-explanatory figures. The entire book is written in S.I Units.

**RECOMMENDATIONS:** A Textbook for First Year Students of Engineering (All Branches), Competitive Examination, ICS, and AMIE Examinations In S.I Units For Degree, Diploma and A.I.M.E. Students and Practicing Civil Engineers.

**ABOUT THE AUTHOR:** Prof. D.K. Chavan  
Professor Mechanical Engineering Department, Marathwada Mitra Mandal's College of Engineering (M.M.C.O.E.) Pune - 411 004  
Ex. Assistant Professor Mechanical Engineering Department, Maharashtra Institute of Technology M.I.T., Pune

– 38 Prof. G.K. Pathak Sr. Faculty Member, Mechanical Engineering Department, Maharashtra Institute of Technology, M.I.T., Pune – 38

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Engineering has been an aspect of life since the beginnings of human existence. The earliest practice of civil engineering may have commenced between 4000 and 2000 BC in ancient Egypt, the Indus Valley civilization, and Mesopotamia (ancient Iraq) when humans started to abandon a nomadic existence, creating a need for the construction of shelter. During this time, transportation became increasingly important leading to the development of the wheel and sailing. Civil engineering is the application of physical and scientific principles for solving the problems of society, and its history is intricately linked to advances in the understanding of physics and mathematics throughout history. Because civil engineering is a broad profession, including several specialized sub-disciplines, its history is linked to knowledge of structures, materials science, geography, geology, soils, hydrology, environmental science, mechanics, project management, and other fields. Throughout ancient and medieval history most architectural design and construction was carried out by artisans, such as stonemasons and carpenters, rising to the role of master builder. Knowledge was retained in guilds and seldom supplanted by advances. Structures, roads, and infrastructure that existed were repetitive, and increases in scale were incremental. The purpose of this textbook is to present an introduction to the subject.

Basics of Civil Engineering of Bachelor of Engineering ( BE) Semester - I. The book contains the syllabus from basics of subjects going into the intricacies of the subjects. Student now required to solve minimum Four ( 4 ) Assignments based on the Syllabus. Each topic is followed by Assignment Questions which now forms the compulsory part of internal assessment. All the concepts have been explained with relevant examples and diagrams to make it interesting for the reader. An attempt is made here by the experts of TMC to assist the students by way of providing Study text as per the curriculum with non - commercial considerations. We owe to many websites and their free contents; we would like to specially acknowledge the contents of website [www. wikipedia. com](http://www.wikipedia.com) and various authors whose writings formed the basis for this book. We acknowledge our thanks to them. At the end we would like to say that there is always a room for improvement in whatever we do. We would appreciate any suggestions regarding this study material from the readers so that the contents can be made more interesting and meaningful. Readers can email their queries and doubts to [tmcnagpur@gmail.com](mailto:tmcnagpur@gmail.com). We shall be glad to help you immediately. Dr. Mukul Burghate Author This book offers a design research methodology intended to improve the quality of design research- its academic credibility, industrial significance and societal contribution by enabling more thorough, efficient and effective procedures. Data science has been playing a vital role in almost all major fields. Many researchers are interested in the development of IT applications, which are user-driven with a focus on issues. This can be addressed using data science. User-driven research and data science have gained

much attention from many private, public, and government organizations and research institutions. *Designing User Interfaces With a Data Science Approach* promotes the inclusion of more diversified users for user-centered design applications across domains and analyzes user data with a science approach for effective and user-friendly user interface designs. It introduces the foundations of advanced topics of human-computer interaction, particularly with user-centered designs and techniques. Covering topics such as artificial neural networks, natural dialog systems, and machine learning, this book is an essential resource for faculty, research scholars, industry professionals, students of higher education, mathematicians, data scientists, interaction designers, visual designers, software engineers, user experience researchers, accessibility engineers, cognitive system engineers, academicians, and libraries. Due to increasing industry 4.0 practices, massive industrial process data is now available to researchers for modelling and optimization. Artificial Intelligence methods can be applied to the ever-increasing process data to achieve robust control against foreseen and unforeseen system fluctuations. Smart computing techniques like machine learning, deep learning, computer vision, for example, will be inseparable from the highly automated factories of tomorrow. Effective cybersecurity will be a must for all Internet of Things (IoT) enabled work and office spaces. This book addresses metaheuristics in all aspects of Industry 4.0. It covers metaheuristic applications in IoT, cyber physical systems, control systems, smart computing, artificial intelligence, sensor networks, robotics, cybersecurity, smart factory, predictive

analytics and more. Key features: Includes industrial case studies. Includes chapters on cyber physical systems, machine learning, deep learning, cybersecurity, robotics, smart manufacturing and predictive analytics. surveys current trends and challenges in metaheuristics and industry 4.0. Metaheuristic Algorithms in Industry 4.0 provides a guiding light to engineers, researchers, students, faculty and other professionals engaged in exploring and implementing industry 4.0 solutions in various systems and processes.

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