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*Engineering Drawing* **Basic Mechanical Engineering** *Engineering Graphics* **Hands-On Data Structures and Algorithms with Python** **Building Integrated Photovoltaic Thermal Systems** Deep Learning Techniques for Biomedical and Health Informatics Prominent Feature Extraction for Sentiment Analysis **Forensic Investigations and Risk Management in Mobile and Wireless Communications** Communication and Intelligent Systems **Moirra** The City and the Country in Early India Python Data Structures and Algorithms **Pratiyogita Darpan** Deep Learning-Based Approaches for Sentiment Analysis **Case Studies in Secure Computing** Advances in Soft Computing and Its Applications **Basics of Mechanical Engineering** **Hands-On Data Structures and Algorithms with Python** Subsynchronous Resonance in Power Systems *Basic Statistics* *Microservices in Big Data Analytics* **Programmed Statistics (Question-Answers)** **Drop Dynamics and Dropwise Condensation on Textured Surfaces** Data Structures and Algorithms in Python Mastering Python Design Patterns Data Mining and Analysis in the Engineering Field *The Black Box* **Railway Engineering** *9 Practical Node.js Projects* Computational Statistical Methodologies and Modeling for Artificial Intelligence *The Wheel of Surya* Computer Aided Engineering Drawing (As Per The Latest Bis Standards Sp: 46-2003) , Third Edition Securing Social Networks in Cyberspace *Engg Drawing Annie Besant in India* Pratiyogita Darpan Proceedings of International Conference on Intelligent Cyber-Physical Systems *Java Data Analysis* **Pratiyogita Darpan** **Mastering Go**

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This book covers computational statistics-based approaches for Artificial Intelligence. The aim of this book is to provide comprehensive coverage of the fundamentals through the applications of the different kinds of mathematical modelling and statistical techniques and describing their applications in different Artificial Intelligence systems. The primary users of this book will include researchers, academicians, postgraduate students, and specialists in the areas of data science, mathematical modelling, and Artificial Intelligence. It will also serve as a valuable resource for many others in the fields of electrical, computer, and optical engineering. The key features of this book are: Presents development of several real-world problem applications and experimental research in the field of computational statistics and mathematical modelling for Artificial Intelligence Examines the evolution of fundamental research into industrialized research and the transformation of applied investigation into real-time applications Examines the applications involving analytical and statistical solutions, and provides foundational and advanced concepts for beginners and industry professionals Provides a dynamic perspective to the concept of computational statistics for analysis of data and applications in intelligent systems with an objective of ensuring sustainability issues for ease of different stakeholders in various fields Integrates recent methodologies and challenges by employing mathematical modeling and statistical techniques for Artificial Intelligence The objective of this monograph is to improve the performance of the sentiment analysis model by incorporating the semantic, syntactic and common-sense knowledge. This book proposes a novel semantic concept extraction approach that uses dependency relations between words to extract the features from the text. Proposed approach combines the semantic and common-sense knowledge for the better understanding of the text. In addition, the book aims to extract prominent features from the unstructured text by eliminating the noisy, irrelevant and redundant features. Readers will also discover a proposed method for efficient dimensionality reduction to alleviate the data sparseness problem being faced by machine learning model. Authors pay attention to the four main findings of the book : -Performance of the sentiment analysis can be improved by reducing the redundancy among the features. Experimental results show that minimum Redundancy Maximum Relevance (mRMR) feature selection technique improves the performance of the sentiment analysis by eliminating the redundant features. - Boolean Multinomial Naive Bayes (BMNB) machine learning algorithm with mRMR feature selection technique performs better than Support Vector Machine (SVM) classifier for sentiment analysis. - The problem of data sparseness is alleviated by semantic clustering of features, which in turn improves the performance of the sentiment analysis. - Semantic relations among the words in the text have useful cues for sentiment analysis. Common-sense knowledge in form of ConceptNet ontology acquires knowledge, which provides a better understanding of the text that improves the performance of the sentiment analysis. Based on the

authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. Data Structures and Algorithms in Python is the first authoritative object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same general structure as Data Structures and Algorithms in Java and Data Structures and Algorithms in C++. This book gathers selected research papers presented at the International Conference on Communication and Intelligent Systems (ICCIS 2019), organised by Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, India and Rajasthan Technical University, Kota, India on 9–10 November 2019. This book presents a collection of state-of-the-art research work involving cutting-edge technologies for communication and intelligent systems. Over the past few years, advances in artificial intelligence and machine learning have sparked new research efforts around the globe, which explore novel ways of developing intelligent systems and smart communication technologies. The book presents single- and multi-disciplinary research on these themes in order to make the latest results available in a single, readily accessible source. Railway Engineering has been specially designed for undergraduate students of civil engineering. From fundamental topics to modern technological developments, the book covers all aspects of the railways including various modernization plans covering tracks, locomotives, and rolling stock. Important statistical data about the Indian Railways and other useful information have also been incorporated to make the coverage comprehensive. A number of illustrative examples supplement text to aid easy understanding of design methods discussed. The book should also serve the need of students of polytechnics and those appearing of the AMIE examination and would also be a ready reference for railway professionals.

Master key features of Go, including advanced concepts like concurrency and working with JSON, to create and optimize real-world services, network servers, and clients

Key Features

This third edition of the bestselling guide to advanced Go programming has been overhauled and expanded to cover RESTful servers, the WebSocket protocol, and Go generics

Use real-world exercises to build high-performance network servers and powerful command line utilities

Packed with practical examples and utilities to apply to your own development work and administrative tasks

Get clear explanations about Go nuances and features to simplify Go development

Book Description

Mastering Go is the essential guide to putting Go to work on real production systems. This freshly updated third edition includes topics like creating RESTful servers and clients, understanding Go generics, and developing gRPC servers and clients. Mastering Go was written for programmers who want to explore the capabilities of Go in practice. As you work your way through the chapters, you'll gain confidence and a deep understanding of advanced Go concepts, including concurrency and the operation of the Go Garbage Collector, using Go with Docker, writing powerful command-line utilities, working with JavaScript Object Notation (JSON) data, and interacting with databases. You'll also improve your understanding of Go internals to optimize Go code and use data types and data structures in new and unexpected ways. This essential Go programming book will also take you through the nuances and idioms of Go with exercises and resources to fully embed your newly acquired knowledge. With the help of Mastering Go, you'll become an expert Go programmer by building Go systems and implementing advanced Go techniques in your projects. What you will learn

Use Go in production

Write reliable, high-performance concurrent code

Manipulate data structures including slices, arrays, maps, and pointers

Develop reusable packages with reflection and interfaces

Become familiar with generics for effective Go programming

Create concurrent RESTful servers, and build gRPC clients and servers

Define Go structures for working with JSON data

Who this book is for

You'll need to know the basics of Go before you get started with this book, but beyond that, anyone can sink their teeth into it. It's written primarily for Go programmers who have a bit of experience with the language and want to become expert practitioners. This book is an expanded form of the monograph, Dropwise Condensation on Inclined Textured Surfaces, Springer, 2013, published earlier by the authors, wherein a mathematical model for dropwise condensation of pure vapor over inclined textured surfaces was

presented, followed by simulations and comparison with experiments. The model factored in several details of the overall quasi-cyclic process but approximated those at the scale of individual drops. In the last five years, drop level dynamics over hydrophobic surfaces have been extensively studied. These results can now be incorporated in the dropwise condensation model. Dropwise condensation is an efficient route to heat transfer and is often encountered in major power generation applications. Drops are also formed during condensation in distillation devices that work with diverse fluids ranging from water to liquid metals. Design of such equipment requires careful understanding of the condensation cycle, starting from the birth of nuclei, followed by molecular clusters, direct growth of droplets, their coalescence, all the way to instability and fall-off of condensed drops. The model described here considers these individual steps of the condensation cycle. Additional discussions include drop shape determination under static conditions, a fundamental study of drop spreading in sessile and pendant configurations, and the details of the drop coalescence phenomena. These are subsequently incorporated in the condensation model and their consequences are examined. As the mathematical model is spread over multiple scales of length and time, a parallelization approach to simulation is presented. Special topics include three-phase contact line modeling, surface preparation techniques, fundamentals of evaporation and evaporation rates of a single liquid drop, and measurement of heat transfer coefficient during large-scale condensation of water vapor. We hope that this significantly expanded text meets the expectations of design engineers, analysts, and researchers working in areas related to phase-change phenomena and heat transfer.

The dramatic first volume in the Surya Trilogy by Whitbread award-winning author of *Coram Boy*, Jamila Gavin. In 1947 India is rocked by the Independence movement and partition with Pakistan. Their lives disrupted by violence, Jaspal and Marvinder are sent from their Indian village to find their father, who is a student in England. A story touching on culture, class, faith and family set against the backdrop of Indian independence. No children's books about India conveys these issues and themes with the effortless ease of Jamila Gavin.

Mobile forensics has grown from a relatively obscure tradecraft to a crucial part of many criminal investigations, and is now used daily by examiners and analysts within local, state, and federal law enforcement as well as within the military, US government organizations, and the private "e-Discovery" industry. Developments in forensic research, tools, and processes over the past decade have been very successful and continue to change at a rapid pace.

*Forensic Investigations and Risk Management in Mobile and Wireless Communications* is a collection of innovative research on the methods and applications of analyzing mobile devices and data for collection of information pertaining to the legal evidence related to various security breaches and intrusion detection. While highlighting topics including cybercrime, neural networks, and smartphone security, this book is ideally designed for security analysts, IT professionals, researchers, practitioners, academicians, and students currently investigating the up-and-coming aspects surrounding network security, computer science, and security engineering.

*Exploit various design patterns to master the art of solving problems using Python Key Features* Master the application design using the core design patterns and latest features of Python 3.7 Learn tricks to solve common design and architectural challenges Choose the right plan to improve your programs and increase their productivity

*Book Description* Python is an object-oriented scripting language that is used in a wide range of categories. In software engineering, a design pattern is an elected solution for solving software design problems. Although they have been around for a while, design patterns remain one of the top topics in software engineering, and are a ready source for software developers to solve the problems they face on a regular basis. This book takes you through a variety of design patterns and explains them with real-world examples. You will get to grips with low-level details and concepts that show you how to write Python code, without focusing on common solutions as enabled in Java and C++. You'll also find sections on corrections, best practices, system architecture, and its designing aspects. This book will help you learn the core concepts of design patterns and the way they can be used to resolve software design problems. You'll focus on most of the Gang of Four (GoF) design patterns, which are used to solve everyday problems, and take your skills to the next level with reactive and functional patterns that help you build resilient,

scalable, and robust applications. By the end of the book, you'll be able to efficiently address commonly faced problems and develop applications, and also be comfortable working on scalable and maintainable projects of any size. What you will learn

- Explore Factory Method and Abstract Factory for object creation
- Clone objects using the Prototype pattern
- Make incompatible interfaces compatible using the Adapter pattern
- Secure an interface using the Proxy pattern
- Choose an algorithm dynamically using the Strategy pattern
- Keep the logic decoupled from the UI using the MVC pattern
- Leverage the Observer pattern to understand reactive programming
- Explore patterns for cloud-native, microservices, and serverless architectures

Who this book is for This book is for intermediate Python developers. Prior knowledge of design patterns is not required to enjoy this book. These proceedings gather cutting-edge papers exploring the principles, techniques, and applications of Microservices in Big Data Analytics. The ICETCE-2019 is the latest installment in a successful series of annual conferences that began in 2011. Every year since, it has significantly contributed to the research community in the form of numerous high-quality research papers. This year, the conference's focus was on the highly relevant area of Microservices in Big Data Analytics. Special Features:

- Simple language, point-wise descriptions in easy steps.
- Chapter organization in exact agreement with sequence of syllabus.
- Simple line diagrams.
- Concepts supported by ample number of solved examples and illustrations.
- Pedagogy in tune with examination pattern of RGTU.
- Large number of Practice problems.
- Model Question Papers

About The Book: This book is designed to suit the core engineering course on basic mechanical engineering offered to first year students of all engineering colleges in Madhya Pradesh. This book meets the syllabus requirements of Basic Mechanical Engineering and has been written for the first year students (all branches) of BE Degree course of RGPV Bhopal affiliated Engineering Institutes. A number of illustrations have been used to explain and clarify the subject matter. Numerous solved examples are presented to make understanding the content of the book easy. Objective type questions have been provided at the end of each chapter to help the students to quickly review the concepts. Solar photovoltaics is one of the most promising renewable energy technologies, producing electricity on site directly from the solar radiation without harming the environment and depletion of materials. The Building Integrated Photovoltaic Thermal (BIPVT) system is a technology which merges PV and thermal systems, simultaneously providing both electric and thermal energy. Through this combination more energy is generated per unit surface area in comparison to the standalone photovoltaics system. Benefits of the BIPVT system include significantly increased electrical performance, faster payback than traditional systems, negligible impact on the environment and the product is easier and less expensive to install with low maintenance required. This book describes the recent developments in PV technologies, solar radiation available on the earth, various BIPVT systems and their applications, energy and exergy analysis, carbon dioxide migration and credit earned, life cycle cost analysis and life cycle conversion efficiency. Presently there is no single book which covers all the basic and the advanced concepts related to the implementation of solar energy for the passive heating and cooling of the building. In addition to the basic concepts, the book includes the technology advances, modelling and analysis and ongoing research in the area of BIPVT. Key features of book include:

- Solar heating and cooling concepts
- Thermal comfort
- Performance analysis of BIPVT system
- Worldwide case studies
- Energy payback period
- Techno-economics and sustainability of the system

The book, written by experts in the field with years of research and teaching, is intended for the specialists, scientists and people involved in research in the disciplines of renewable energy, energy studies, building energy or carbon credit. For the practicing professional, advanced senior or graduate student with work experience, the book should be used as part of an integrative program enabling them to make deep linkages and thus better decisions in the professional world. The two-volume set LNAI 8265 and LNAI 8266 constitutes the proceedings of the 12th Mexican International Conference on Artificial Intelligence, MICAI 2013, held in Mexico City, Mexico, in November 2013. The total of 85 papers presented in these proceedings were carefully reviewed and selected from 284 submissions. The first volume deals with advances in artificial intelligence and its applications and is structured in the following five sections:

logic and reasoning; knowledge-based systems and multi-agent systems; natural language processing; machine translation and bioinformatics and medical applications. The second volume deals with advances in soft computing and its applications and is structured in the following eight sections: evolutionary and nature-inspired metaheuristic algorithms; neural networks and hybrid intelligent systems; fuzzy systems; machine learning and pattern recognition; data mining; computer vision and image processing; robotics, planning and scheduling and emotion detection, sentiment analysis and opinion mining. Understand how implementing different data structures and algorithms intelligently can make your Python code and applications more maintainable and efficient Key Features Explore functional and reactive implementations of traditional and advanced data structures Apply a diverse range of algorithms in your Python code Implement the skills you have learned to maximize the performance of your applications Book Description Choosing the right data structure is pivotal to optimizing the performance and scalability of applications. This new edition of Hands-On Data Structures and Algorithms with Python will expand your understanding of key structures, including stacks, queues, and lists, and also show you how to apply priority queues and heaps in applications. You'll learn how to analyze and compare Python algorithms, and understand which algorithms should be used for a problem based on running time and computational complexity. You will also become confident organizing your code in a manageable, consistent, and scalable way, which will boost your productivity as a Python developer. By the end of this Python book, you'll be able to manipulate the most important data structures and algorithms to more efficiently store, organize, and access data in your applications. What you will learn Understand common data structures and algorithms using examples, diagrams, and exercises Explore how more complex structures, such as priority queues and heaps, can benefit your code Implement searching, sorting, and selection algorithms on number and string sequences Become confident with key string-matching algorithms Understand algorithmic paradigms and apply dynamic programming techniques Use asymptotic notation to analyze algorithm performance with regard to time and space complexities Write powerful, robust code using the latest features of Python Who this book is for This book is for developers and programmers who are interested in learning about data structures and algorithms in Python to write complex, flexible programs. Basic Python programming knowledge is expected. Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics like career, economy, history, public administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are covered every month in this magazine. Annie Besant (1847-1933) distinguished herself in England as a fierce social reformer and fighter for social justice. After reviewing H.P. Blavatsky's magnum opus, The Secret Doctrine, she rediscovered Theosophy and joined the Theosophical Society in May 1889. She first came to India in 1893 and made India her home, travelling the length and breadth of the country attracting thousands to her message of Brahmavidya? (Divine Wisdom). This book focuses on Annie Besant's work in India and for India. It includes a description of her passage from England to India, her work for Indian education, her accomplishments as President of the Theosophical Society, and her introduction of J. Krishnamurti to the world as the vehicle of a new teaching to humanity. It also presents her inspiring vision for India, and her brave work towards Home Rule for India. The Sanskrit word vajrasattva, 'diamond soul', was once applied to Annie Besant. She combined in her person dauntless determination with compassion for all those who suffer. She saw India as the spiritual Mother of the world and worked for its spiritual, social and political regeneration throughout her active life. Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics like career, economy, history, public

administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are covered every month in this magazine. This Book Covers A Wide Range Of Topics In Statistics With Conceptual Analysis, Mathematical Formulas And Adequate Details In Question-Answer Form. It Furnishes A Comprehensive Overview Of Statistics In A Lucid Manner. The Book Provides Ready-Made Material For All Inquisitive Minds To Help Them Prepare For Any Traditional Or Internal Grading System Examination, Competitions, Interviews, Viva-Voce And Applied Statistics Courses. One Will Not Have To Run From Pillar To Post For Guidance In Statistics. The Answers Are Self-Explanatory. For Objective Type Questions, At Many Places, The Answers Are Given With Proper Hints. Fill-In-The-Blanks Given In Each Chapter Will Enable The Readers To Revise Their Knowledge In A Short Span Of Time. An Adequate Number Of Multiple-Choice Questions Inculcate A Deep Understanding Of The Concepts. The Book Also Provides A Good Number Of Numerical Problems, Each Of Which Requires Fresh Thinking For Its Solution. It Will Also Facilitate The Teachers To A Great Extent In Teaching A Large Number Of Courses, As One Will Get A Plethora Of Matter At One Place About Any Topic In A Systematic And Logical Manner. The Book Can Also Serve As An Exhaustive Text.

Deep Learning Techniques for Biomedical and Health Informatics provides readers with the state-of-the-art in deep learning-based methods for biomedical and health informatics. The book covers not only the best-performing methods, it also presents implementation methods. The book includes all the prerequisite methodologies in each chapter so that new researchers and practitioners will find it very useful. Chapters go from basic methodology to advanced methods, including detailed descriptions of proposed approaches and comprehensive critical discussions on experimental results and how they are applied to Biomedical Engineering, Electronic Health Records, and medical image processing. Examines a wide range of Deep Learning applications for Biomedical Engineering and Health Informatics, including Deep Learning for drug discovery, clinical decision support systems, disease diagnosis, prediction and monitoring Discusses Deep Learning applied to Electronic Health Records (EHR), including health data structures and management, deep patient similarity learning, natural language processing, and how to improve clinical decision-making Provides detailed coverage of Deep Learning for medical image processing, including optimizing medical big data, brain image analysis, brain tumor segmentation in MRI imaging, and the future of biomedical image analysis This book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students. This book includes selected papers from International Conference on Intelligent Cyber-Physical Systems (ICPS 2021), held at Indian Institute of Information Technology Kota (IIIT Kota), MNIT Jaipur Campus, Jaipur, India, during 16-18 April 2021. The book is a collection of the state-of-the art research work in the cutting-edge technologies related to the artificial intelligence and cyber physical systems. . This book covers deep-learning-based approaches for sentiment analysis, a relatively new, but fast-growing research area, which has significantly changed in the past few years. The book presents a collection of state-of-the-art approaches, focusing on the best-performing, cutting-edge solutions for the most common and difficult challenges faced in sentiment analysis research. Providing detailed explanations of the methodologies, the book is a valuable resource for researchers as well as newcomers to the field.

The City and the Country in Early India: A Study of Malwa is about the emergence of urban centres in the sixth century bce, and analyses the processes and spatiality of urbanization, taking Malwa as its case study. Earlier research on urbanism has focussed on either literary or archaeological sources. While literary sources tend to locate the agency for change exclusively in preachers and rulers, in archaeology, the forces of change become nameless and faceless. The study of inscriptions from Malwa helps in restoring agency to common people. The beginnings of urbanism are to be found in the pre-literate past, and, therefore, require an analysis of archaeological data. Using insights from anthropology and studies of early states, in the first half of the book an attempt has been made to look for new ways to account for urbanization. The second half of the book tries to understand the process of urbanization by examining epigraphic and literary sources. The process of the emergence of urban centres created new forms of division of space:

urban centres were surrounded by villages which in turn were surrounded by wilderness. This book tries to recover the histories of their complex interrelations. Since caste and kinship are considered central to the world of Indian sociology, an attempt has also been made to understand the relationships between caste, kinship and urbanism. Changes in the attitude of the literati towards the city and the country have also been examined.

**Implement classic and functional data structures and algorithms using Python** About This Book A step by step guide, which will provide you with a thorough discussion on the analysis and design of fundamental Python data structures. Get a better understanding of advanced Python concepts such as big-o notation, dynamic programming, and functional data structures. Explore illustrations to present data structures and algorithms, as well as their analysis, in a clear, visual manner. Who This Book Is For The book will appeal to Python developers. A basic knowledge of Python is expected. What You Will Learn Gain a solid understanding of Python data structures. Build sophisticated data applications. Understand the common programming patterns and algorithms used in Python data science. Write efficient robust code. In Detail Data structures allow you to organize data in a particular way efficiently. They are critical to any problem, provide a complete solution, and act like reusable code. In this book, you will learn the essential Python data structures and the most common algorithms. With this easy-to-read book, you will be able to understand the power of linked lists, double linked lists, and circular linked lists. You will be able to create complex data structures such as graphs, stacks and queues. We will explore the application of binary searches and binary search trees. You will learn the common techniques and structures used in tasks such as preprocessing, modeling, and transforming data. We will also discuss how to organize your code in a manageable, consistent, and extendable way. The book will explore in detail sorting algorithms such as bubble sort, selection sort, insertion sort, and merge sort. By the end of the book, you will learn how to build components that are easy to understand, debug, and use in different applications.

**Style and Approach** The easy-to-read book with its fast-paced nature will improve the productivity of Python programmers and improve the performance of Python applications. Get the most out of the popular Java libraries and tools to perform efficient data analysis

**About This Book** Get your basics right for data analysis with Java and make sense of your data through effective visualizations. Use various Java APIs and tools such as Rapidminer and WEKA for effective data analysis and machine learning. This is your companion to understanding and implementing a solid data analysis solution using Java

**Who This Book Is For** If you are a student or Java developer or a budding data scientist who wishes to learn the fundamentals of data analysis and learn to perform data analysis with Java, this book is for you. Some familiarity with elementary statistics and relational databases will be helpful but is not mandatory, to get the most out of this book. A firm understanding of Java is required.

**What You Will Learn** Develop Java programs that analyze data sets of nearly any size, including text Implement important machine learning algorithms such as regression, classification, and clustering Interface with and apply standard open source Java libraries and APIs to analyze and visualize data Process data from both relational and non-relational databases and from time-series data Employ Java tools to visualize data in various forms Understand multimedia data analysis algorithms and implement them in Java. In Detail Data analysis is a process of inspecting, cleansing, transforming, and modeling data with the aim of discovering useful information. Java is one of the most popular languages to perform your data analysis tasks. This book will help you learn the tools and techniques in Java to conduct data analysis without any hassle. After getting a quick overview of what data science is and the steps involved in the process, you'll learn the statistical data analysis techniques and implement them using the popular Java APIs and libraries. Through practical examples, you will also learn the machine learning concepts such as classification and regression. In the process, you'll familiarize yourself with tools such as Rapidminer and WEKA and see how these Java-based tools can be used effectively for analysis. You will also learn how to analyze text and other types of multimedia. Learn to work with relational, NoSQL, and time-series data. This book will also show you how you can utilize different Java-based libraries to create insightful and easy to understand plots and graphs. By the end of this book, you will have a



solid understanding of the various data analysis techniques, and how to implement them using Java. Style and approach The book takes a very comprehensive approach to enhance your understanding of data analysis. Sufficient real-world examples and use cases are included to help you grasp the concepts quickly and apply them easily in your day-to-day work. Packed with clear, easy-to-follow examples, this book will turn you into an ace data analyst in no time. Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics like career, economy, history, public administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are covered every month in this magazine. Particularly in the fields of software engineering, virtual reality, and computer science, data mining techniques play a critical role in the success of a variety of projects and endeavors.

Understanding the available tools and emerging trends in this field is an important consideration for any organization. Data Mining and Analysis in the Engineering Field explores current research in data mining, including the important trends and patterns and their impact in fields such as software engineering. With a focus on modern techniques as well as past experiences, this vital reference work will be of greatest use to engineers, researchers, and practitioners in scientific-, engineering-, and business-related fields. "Written for the first year engineering students of all branches, this text covers the basic principles of Engineering Graphics course. Simple and easy-to-understand language is provide a firm understanding of the fundamental concepts. Systematic introduction of concepts, variety of solved examples, practice questions and excellent 2D & 3D illustrations make this text very useful for students." - From cover. Mathematical calculations for subsynchronous system modeling

Subsynchronous Resonance in Power Systems provides in-depth guidance toward the parameters, modeling, and analysis of this complex subclass of power systems. Emphasizing field testing to determine the data required, this book facilitates thorough and efficient oscillation and damping modeling using eigenvalues of a system's linear model. Expert discussion provides step-by-step instruction for generator, network, and turbine-generator shaft models, followed by detailed tutorials for model testing and analysis based on IEEE, CORPALS, and SSR eigenvalue analysis.

Comprehensive in scope and practical in focus, this book is an invaluable resource for anyone working with frequencies below 60 Hz. That a woman's mind is akin to a labyrinth of impossibility, best left on its own, is but a common cliché of the day. Mihika Singh, our kind protagonist, the prodigal but overly sensitive child, grows up to be a woman ruthless in pursuing her ambitions, yet rooted to her moral soil while breathing life to her dreams. However, with a career par excellence, she grapples to hold on to the reins of her love life. We live her story with her as she holds a mirror to her own heart to reflect on her approach to propinquity, commitment and pain, trying to make sense of it all. She isn't perfect, she makes mistakes and owns them too, taking lessons out of each one of them. As the seasons of her love life change, she explores different facets of intimacy in love, and each time rediscovers herself in it. In this long, tumultuous journey of moving only but ahead, does she stop for someone finally for what it's worth? Or does destiny prove too strong a force to conquer? Let us hear it from her... This book collates the key security and privacy concerns faced by individuals and organizations who use various social networking sites. This includes activities such as connecting with friends, colleagues, and family; sharing and posting information; managing audio, video, and photos; and all other aspects of using social media sites both professionally and personally. In the setting of the Internet of Things (IoT) that can connect millions of devices at any one time, the security of such actions is paramount. Securing Social Networks in Cyberspace discusses user privacy and trust, location privacy, protecting children, managing multimedia content, cyberbullying, and much more. Current state-of-the-art defense mechanisms that can bring long-term solutions to tackling these threats are considered in the book. This book can be used as a reference for an easy understanding of complex cybersecurity issues in social networking platforms and services. It is beneficial for academicians and graduate-level

researchers. General readers may find it beneficial in protecting their social-media-related profiles. In Computer Aided Engineering Drawing, the author draws upon his vast experience of teaching and presents a student friendly step-by-step demonstrative approach, similar to that of classroom teaching.

**Key Features:**

- \* Use of updated B.I.S. conventions.
- \* Incorporates standard assumptions in case of incomplete data by framing special problems.
- \* Introduces various softwares for computer-aided engineering drawings.
- \* Includes solved problems using different methods.
- \* A concise summary at the end of each chapter for quick revision.
- \* Includes solutions to difficult problems using 3-D diagrams.
- \* Examination problems of VTU and other universities have been included in the exercise section for practice. Hints have been given to solve the problems where necessary.
- \* The complete book has been written with classroom teaching approach.

While there have been quite a few attempts to get JavaScript working as a server-side language, Node.js (frequently just called Node) has been the first environment that's gained any traction. It's now used by companies such as Netflix, Uber and Paypal to power their web apps. Node allows for blazingly fast performance; thanks to its event loop model, common tasks like network connection and database I/O can be executed very quickly indeed. In this book, we offer a selection of nine different practical projects that you can follow along with. It contains:

- Build a Simple Beginner App with Node, Bootstrap & MongoDB by James Hibbard
- How to Build a File Upload Form with Express and Dropzone.js by Lukas White
- How to Build and Structure a Node.js MVC Application by James Kolce
- User Authentication with the MEAN Stack by Simon Holmes & Jeremy Wilken
- Build a JavaScript Command Line Interface (CLI) with Node.js by Lukas White & Michael Wanyoike
- Building a Real-time Chat App with Sails.js by Michael Wanyoike
- Passport Authentication for Node.js Applications by Paul Orac
- Local Authentication Using Passport in Node.js by Paul Orac
- An Introduction to NodeBots by Patrick Catanzariti

This book is for anyone who wants to start learning server-side development with Node.js. Familiarity with JavaScript is assumed.

Basics of Mechanical Engineering systematically develops the concepts and principles essential for understanding engineering thermodynamics, mechanics and strength of materials. This book is meant for first year B. Tech students of various technical universities. It will also be helpful for candidates preparing for various competitive examinations.

What policies should India pursue for fostering innovation? Taking the perspective that all policies that influence technology-related choices of firms should be considered part of innovation policy, the book analyses the impact on innovation of various policies, including those related to industry, trade, R&D, foreign direct investment, intellectual property rights, start-ups and higher education. It brings together conceptual and empirical literature from diverse intellectual streams to analyse the linkages between innovation and public policy. Combining insights from the disciplines of economics and management, the book highlights the complexity of policy choices, identifies certain focus areas and argues for consistency across various policy instruments to create an appropriate environment for innovation in India. This book is meant for the Engineering Drawing course offered to the students of all engineering disciplines in their first year. An important highlight of this book is the inclusion of practical hints along with theory which would enable the students to make perfect drawings. In today's age of wireless and mobile computing, network and computer security is paramount. Case Studies in Secure Computing: Achievements and Trends gathers the latest research from researchers who share their insights and best practices through illustrative case studies. This book examines the growing security attacks and countermeasures in the stand-alone and networking worlds, along with other pertinent security issues. The many case studies capture a truly wide range of secure computing applications. Surveying the common elements in computer security attacks and defenses, the book:

- Describes the use of feature selection and fuzzy logic in a decision tree model for intrusion detection
- Introduces a set of common fuzzy-logic-based security risk estimation techniques with examples
- Proposes a secure authenticated multiple-key establishment protocol for wireless sensor networks
- Investigates various malicious activities associated with cloud computing and proposes some countermeasures
- Examines current and emerging security threats in long-term evolution backhaul and core networks
- Supplies a brief introduction to application-layer denial-of-service (DoS) attacks
- Illustrating the security challenges currently facing practitioners,

this book presents powerful security solutions proposed by leading researchers in the field. The examination of the various case studies will help to develop the practical understanding required to stay one step ahead of the security threats on the horizon. This book will help those new to the field understand how to mitigate security threats. It will also help established practitioners fine-tune their approach to establishing robust and resilient security for next-generation computing systems. Learn to implement complex data structures and algorithms using Python Key Features Understand the analysis and design of fundamental Python data structures Explore advanced Python concepts such as Big O notation and dynamic programming Learn functional and reactive implementations of traditional data structures

**Book Description** Data structures allow you to store and organize data efficiently. They are critical to any problem, provide a complete solution, and act like reusable code. **Hands-On Data Structures and Algorithms with Python** teaches you the essential Python data structures and the most common algorithms for building easy and maintainable applications. This book helps you to understand the power of linked lists, double linked lists, and circular linked lists. You will learn to create complex data structures, such as graphs, stacks, and queues. As you make your way through the chapters, you will explore the application of binary searches and binary search trees, along with learning common techniques and structures used in tasks such as preprocessing, modeling, and transforming data. In the concluding chapters, you will get to grips with organizing your code in a manageable, consistent, and extendable way. You will also study how to bubble sort, selection sort, insertion sort, and merge sort algorithms in detail. By the end of the book, you will have learned how to build components that are easy to understand, debug, and use in different applications. You will get insights into Python implementation of all the important and relevant algorithms. What you will learn

Understand object representation, attribute binding, and data encapsulation Gain a solid understanding of Python data structures using algorithms Study algorithms using examples with pictorial representation Learn complex algorithms through easy explanation, implementing Python Build sophisticated and efficient data applications in Python Understand common programming algorithms used in Python data science Write efficient and robust code in Python 3.7

**Who this book is for** This book is for developers who want to learn data structures and algorithms in Python to write complex and flexible programs. Basic Python programming knowledge is expected.

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