

Data Structure By Sushil Goel

Through abundant programming examples this book will aid the student and novice in mastering data structures in C language. It covers detailed theory supplemented with figures and examples; introduces Data Structures at the abstract level, their implementation and applications; includes complete algorithms which are later coded as a program in C language; includes review questions and exercises to enhance application skills. This book has been written for the students of MCA, M. Tech., M. Sc., Engineering, BCA, BIT, B. Sc., C-DAC, DOEACC-'O' Level, 'A' Level and other diploma courses. --

This book presents different aspects of renewable energy integration, from the latest developments in renewable energy technologies to the currently growing smart grids. The importance of different renewable energy sources is discussed, in order to identify the advantages and challenges for each technology. The rules of connecting the renewable energy sources have also been covered along with practical examples. Since solar and wind energy are the most popular forms of renewable energy sources, this book provides the challenges of integrating these renewable generators along with some innovative solutions. As the complexity of power system operation has been raised due to the renewable energy integration, this book also includes some analysis to investigate the characteristics of power systems in a smarter way. This book is intended for those working in the area of renewable energy integration in distribution networks.

Innovations and Advances in Computer Sciences and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Innovations and Advances in Computer Sciences and Engineering includes selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2008) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2008).

The importance of research and education in design continues to grow. For example, government agencies are gradually increasing funding of design research, and increasing numbers of engineering schools are revising their curricula to emphasize design. This is because of an increasing realization that design is part of the wealth creation of a nation and needs to be better understood and taught. The continuing globalization of industry and trade has required nations to re-examine where their core contributions lie if not in production efficiency. Design is a precursor to manufacturing for physical objects and is the precursor to implementation for virtual objects. At the same time, the need for sustainable development is requiring design of new products and processes, and feeding a movement towards design - novations and inventions. There are now three sources for design research: design computing, design cognition and human-centered information technology. The foundations for much of design computing remains artificial intelligence with its focus on ways of representation and on processes that support simulation and generation. Artificial intelligence continues to provide an environmentally rich paradigm within which design research based on computational constructions can be carried out. Design cognition is founded on concepts from cognitive science, an even newer area than artificial intelligence. It provides tools and methods to study human designers in both laboratory and practice settings.

Renewable Energy Integration

Computer Fundamentals

Advanced Linux Programming

Conceptual Database Design

Innovations and Advances in Computer Sciences and Engineering

Pr?gdh?ra

The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community. As a result, the latest findings, research and discoveries can be quickly disseminated. This workshop provides all participating research groups with an excellent platform for interaction and collaboration with other members of their respective scientific community. This workshop's technical sessions include various current and significant topics for applications and scientific developments, including • Optoelectronics • VLSI & ULSI Technology • Photovoltaics • MEMS & Sensors • Device Modeling and Simulation • High Frequency/ Power Devices • Nanotechnology and Emerging Areas • Organic Electronics • Displays and Lighting Many eminent scientists from various national and international organizations are actively participating with their latest research works and also equally supporting this mega event by joining the various organizing committees.

New technology is always evolving and companies must have appropriate security for their businesses to be able to keep up to date with the changes. With the rapid growth of the internet and the world wide web, data and applications security will always be a key topic in industry as well as in the public sector, and has implications for the whole of society. Data and Applications Security covers issues related to security and privacy of information in a wide range of applications, including: Electronic Commerce, XML and Web Security; Workflow Security and Role-based Access Control; Distributed Objects and Component Security; Inference Problem, Data Mining and Intrusion Detection; Language and SQL Security; Security Architectures and Frameworks; Federated and Distributed Systems Security; Encryption, Authentication and Security Policies. This book contains papers and panel discussions from the Fourteenth Annual Working Conference on Database Security, which is part of the Database Security: Status and Prospects conference series sponsored by the International Federation for Information Processing (IFIP). The conference was held in Schoorl, The Netherlands in August 2000.

The book, with comprehensive and practicable coverage, acquaints its readers with thorough knowledge and skills to help the growing children in their proper growth and development enabling them to reach the limit of their excellence on one hand, and instilling in them the sense of responsibility towards their society and nation on the other hand. It dwells on the essential topics such as nature of the process of growth and development going on at the various ages and developmental stages of children, their developmental needs and characteristics, individual differences and diversities existing among them, development of various abilities and capacities like intelligence, creativity, and overall personality characteristics, nature of the age-linked behavioural problems, adjustment and mental health, parenting styles, and methods of dealing with the behavioural problems, adjustment, and stressful conditions of the developing children. The text equips the readers with all what is in demand for helping the developing children at this juncture of rapid industrialisation, globalisation, urbanisation, modernisation and economic change. It is primarily designed for the undergraduate students of education and elementary

education. **KEY FEATURES** • Incorporates quite advanced topics such as emotional intelligence, use of reflective journals, anecdotal records and narratives as method of understanding child's behaviour, and so on • Includes detailed discussion of theories of child development, theories of learning, theories of intelligence, theories of achievement motivation, theories of creativity, and theories of personality • Offers engaging language and user-friendly mode of discussion • Adequately illustrated with examples, figures and tables • Comprises chapter-end summary for quick glance of the concepts.

This book provides a comprehensive and accessible introduction to knowledge graphs, which have recently garnered notable attention from both industry and academia. Knowledge graphs are founded on the principle of applying a graph-based abstraction to data, and are now broadly deployed in scenarios that require integrating and extracting value from multiple, diverse sources of data at large scale. The book defines knowledge graphs and provides a high-level overview of how they are used. It presents and contrasts popular graph models that are commonly used to represent data as graphs, and the languages by which they can be queried before describing how the resulting data graph can be enhanced with notions of schema, identity, and context. The book discusses how ontologies and rules can be used to encode knowledge as well as how inductive techniques—based on statistics, graph analytics, machine learning, etc.—can be used to encode and extract knowledge. It covers techniques for the creation, enrichment, assessment, and refinement of knowledge graphs and surveys recent open and enterprise knowledge graphs and the industries or applications within which they have been most widely adopted. The book closes by discussing the current limitations and future directions along which knowledge graphs are likely to evolve. This book is aimed at students, researchers, and practitioners who wish to learn more about knowledge graphs and how they facilitate extracting value from diverse data at large scale. To make the book accessible for newcomers, running examples and graphical notation are used throughout. Formal definitions and extensive references are also provided for those who opt to delve more deeply into specific topics.

5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, Gurugram, India, November 15–16, 2019, Revised Selected Papers, Part II

Introduction to Linux (Second Edition)

Knowledge Graphs

India's New Capitalists

Theory and Practice

U. Pra. Rājya Purātattva Saṅgāṭhana kī "śodha Patrikā"

Ongoing advancements in modern technology have led to significant developments in artificial intelligence. With the numerous applications available, it becomes imperative to conduct research and make further progress in this field. Artificial Intelligence: Concepts, Methodologies, Tools, and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence. Highlighting relevant technologies, uses, and techniques across various industries and settings, this publication is a pivotal reference source for researchers, professionals, academics, upper-level students, and practitioners interested in emerging perspectives in the field of artificial intelligence.

Computer Fundamentals is specifically designed to be used at the beginner level. It covers all the basic hardware and software concepts in computers and its peripherals in a very lucid manner.

Probabilistic topic models have proven to be an extremely versatile class of mixed-membership models for discovering the thematic structure of text collections. There are many possible applications, covering a broad range of areas of study: technology, natural science, social science and the humanities. In this thesis, a new efficient parallel Markov Chain Monte Carlo inference algorithm is proposed for Bayesian inference in large topic models. The proposed methods scale well with the corpus size and can be used for other probabilistic topic models and other natural language processing applications. The proposed methods are fast, efficient, scalable, and will converge to the true posterior distribution. In addition, in this thesis a supervised topic model for high-dimensional text classification is also proposed, with emphasis on interpretable document prediction using the horseshoe shrinkage prior in supervised topic models. Finally, we develop a model and inference algorithm that can model agenda and framing of political speeches over time with a priori defined topics. We apply the approach to analyze the evolution of immigration discourse in the Swedish parliament by combining theory from political science and communication science with a probabilistic topic model.

Probabilistiska ämnesmodeller (topic models) är en mångsidig klass av modeller för att estimeras ämnessammansättningar i större corpusar. Applikationer finns i ett flertal vetenskapsområden som teknik, naturvetenskap, samhällsvetenskap och humaniora. I denna avhandling föreslås nya effektiva och parallella Markov Chain Monte Carlo algoritmer för Bayesianska ämnesmodeller. De föreslagna metoderna skalar väl med storleken på corpuset och kan användas för flera olika ämnesmodeller och liknande modeller inom språkteknologi. De föreslagna metoderna är snabba, effektiva, skalbara och konvergerar till den sanna posteriorfördelningen. Dessutom föreslås en ämnesmodell för högdimensionell textklassificering, med tonvikt på tolkningsbar dokumentklassificering genom att använda en kraftigt regulariserande priorifördelningar. Slutligen utvecklas en ämnesmodell för att analysera "agenda" och "framing" för ett förutbestämt ämne. Med denna metod analyserar vi invandringsdiskursen i Sveriges Riksdag över tid, genom att kombinera teori från statsvetenskap, kommunikationsvetenskap och probabilistiska ämnesmodeller.

Security being one of the main concerns of any organization, this title clearly explains the concepts behind Cryptography and the principles employed behind Network Security. The text steers clear of complex mathematical treatment and presents the concept.

An Entity-relationship Approach

Status and Prospects

Data and Applications Security XVII

Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018, Gurgaon, India

Stress Tolerance in Horticultural Crops

Concepts, Methodologies, Tools, and Applications

EDBT 2000 is the seventh conference in a series dedicated to the advancement of database technology. This year's conference special theme, "Connect Millions of Users and Data Sources," underscores the importance of databases for

the information age that is dawning with the new millennium. The importance - rives not just from the observation that the information age essentially rests on the convergence of communications, computing, and storage. Equally important, many of the concepts and techniques underlying the success of database systems have independent meaning and impact for today's distributed information systems. The papers in the volume should also be seen in this light. The EDBT 2000 conference program includes 30 research papers selected by the program committee out of 187 submissions, covering advances in research, development, and applications of databases. The conference program also includes six industry and applications papers, a panel discussion, six tutorials, and several software demonstrations. The conference features three distinguished - vited speakers: Ashish Gupta discusses database issues in electronic commerce, Stefano Ceri addresses the impact and challenges of XML on databases, and Andreas Reuter shares his views on new perspectives on database technology. The technical contributions presented at the EDBT 2000 conference are collected and preserved in this volume that we are pleased to present to you with the expectation that it will serve as a valuable research and reference tool in your professional life.

Handbook of Database Security: Applications and Trends provides an up-to-date overview of data security models, techniques, and architectures in a variety of data management applications and settings. In addition to providing an overview of data security in different application settings, this book includes an outline for future research directions within the field. The book is designed for industry practitioners and researchers, and is also suitable for advanced-level students in computer science.

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Advanced Linux Programming is divided into two parts. The first covers generic UNIX system services, but with a particular eye towards Linux specific information. This portion of the book will be of use even to advanced programmers who have worked with other Linux systems since it will cover Linux specific details and differences. For programmers without UNIX experience, it will be even more valuable. The second section covers material that is entirely Linux specific. These are truly advanced topics, and are the techniques that the gurus use to build great applications. While this book will focus mostly on the Application Programming Interface (API) provided by the Linux kernel and the C library, a preliminary introduction to the development tools available will allow all who purchase the book to make immediate use of Linux.

Security and privacy are paramount concerns in information processing systems, which are vital to business, government and military operations and, indeed, society itself. Meanwhile, the expansion of the Internet and its convergence with telecommunication networks are providing incredible connectivity, myriad applications and, of course, new threats. Data and Applications Security XVII: Status and Prospects describes original research results, practical experiences and innovative ideas, all focused on maintaining security and privacy in information processing systems and applications that pervade cyberspace. The areas of coverage include: -Information Warfare, -Information Assurance, -Security and Privacy, -Authorization and Access Control in Distributed Systems, -Security Technologies for the Internet, -Access Control Models and Technologies, -Digital Forensics. This book is the seventeenth volume in the series produced by the International Federation for Information Processing (IFIP) Working Group 11.3 on Data and Applications Security. It presents a selection of twenty-six updated and edited papers from the Seventeenth Annual IFIP TC11 / WG11.3 Working Conference on Data and Applications Security held at Estes Park, Colorado, USA in August 2003, together with a report on the conference keynote speech and a summary of the conference panel. The contents demonstrate the richness and vitality of the discipline, and other directions for future research in data and applications security. Data and Applications Security XVII: Status and Prospects is an invaluable resource for information assurance researchers, faculty members and graduate students, as well as for individuals engaged in research and development in the information technology sector.

Introduction to Computer Science
Programming in C

Introduction to Linux (Third Edition)
Modern Database Management
Proceedings of SocProS 2020, Volume 2

The fifth edition of Modern Database Management has been updated to reflect the most current database content available. It provides sound, clear, and current coverage of the concepts, skills, and issues needed to cope with an expanding organisational resource. While sufficient technical detail is provided, the emphasis remains on management and implementation issues pertinent in a business information systems curriculum.

The International Conference on Communication and Computing Systems (ICCCS 2018) provides a high-level international forum for researchers and recent advances in the field of electronic devices, computing, big data analytics, cyber security, quantum computing, biocomputing, telecommunication, etc. The aim of the conference was to bridge the gap between the technological advancements in the industry and the academic research.

In order to do business effectively in contemporary South Asia, it is necessary to understand the culture, the ethos, and the region's new trading communities. In tracing the modern-day evolution of business communities in India, this book uses social history to systematically document and understand India's new entrepreneurial groups.

The natural disasters are the killer agents which can/can't be predicted even though we have modern technology. Every year, in one place or another, disasters striking which is devastating the area and surroundings, leading to ecological disruption besides huge loss of life and property. India is vulnerable to cyclones, landslides/avalanches, earthquakes, floods, droughts, forest fires, epidemics, etc. The 5700-km long coast of India, with its dense population is vulnerable to cyclones/low depressions, tsunamis, etc. The 2400-km long rugged Himalayan terrain is vulnerable to landslides, avalanches and earthquakes. India is not only vulnerable to natural disasters, it is also experiencing industrial accidents. The Bhopal Gas tragedy is one of the major man-made disasters in the world. The state of Andhra Pradesh has 970-km long coastline with two major rivers, etc. The conference is conducted in Visakhapatnam, is

famous for industries and tourism. Recently, several industrial accidents took place, besides major natural disasters like Hud-Hud, etc. Disaster management shall be implemented from the grass root level in vulnerable areas to improve the capacity building, so as to minimize the losses. The capacity building coupled with technology results in reduction of loss of life and property.

Proceedings of International Conference on Remote Sensing for Disaster Management

Systems Analysis and Design

CHILDHOOD AND GROWING UP

Communication and Computing Systems

Applications and Trends

Indian Educational Abstracts

Stress Tolerance in Horticultural Crops: Challenges and Mitigation Strategies explores concepts, strategies and recent advancements in the area of abiotic stress tolerance in horticultural crops, highlighting the latest advances in molecular breeding, genome sequencing and functional genomics approaches. Further sections present specific insights on different aspects of abiotic stress tolerance from classical breeding, hybrid breeding, speed breeding, epigenetics, gene/quantitative trait loci (QTL) mapping, transgenics, physiological and biochemical approaches to OMICS approaches, including functional genomics, proteomics and genomics assisted breeding. Due to constantly changing environmental conditions, abiotic stress such as high temperature, salinity and drought are being understood as an imminent threat to horticultural crops, including their detrimental effects on plant growth, development, reproduction, and ultimately, on yield. This book offers a comprehensive resource on new developments that is ideal for anyone working in the field of abiotic stress management in horticultural crops, including researchers, students and educators. Describes advances in whole genome and next generation sequencing approaches for breeding climate smart horticultural crops Details advanced germplasm tolerance to abiotic stresses screened in the recent past and their performance Includes advancements in OMICS approaches in horticultural crops
Computer Fundamentals Pearson Education India

Whether you're just starting out with Linux or looking to hone your existing skills, this book will provide you with the knowledge you need.

There is a dearth of relevant books dealing with both theory and application of time series analysis techniques, particularly in the field of water resources engineering. Therefore, many hydrologists and hydrogeologists face difficulties in adopting time series analysis as one of the tools for their research. This book fills this gap by providing a proper blend of theoretical and practical aspects of time series analysis. It deals with a comprehensive overview of time series characteristics in hydrology/water resources engineering, various tools and techniques for analyzing time series data, theoretical details of 31 available statistical tests along with detailed procedures for applying them to real-world time series data, theory and methodology of stochastic modelling, and current status of time series analysis in hydrological sciences. In addition, it demonstrates the application of most time series tests through a case study as well as presents a comparative performance evaluation of various time series tests, together with four invited case studies from India and abroad. This book will not only serve as a textbook for the students and teachers in water resources engineering but will also serve as the most comprehensive reference to educate researchers/scientists about the theory and practice of time series analysis in hydrological sciences. This book will be very useful to the students, researchers, teachers and professionals involved in water resources, hydrology, ecology, climate change, earth science, and environmental studies.

Developments and Directions

A Study of Attitudes and Values Within the Indian Army

7th International Conference on Extending Database Technology Konstanz, Germany, March 27-31, 2000 Proceedings

Hydrologic Time Series Analysis

17th International Workshop on the Physics of Semiconductor Devices 2013

Data and Application Security

Computer Fundamentals & Programming in C

This book constitutes the refereed proceedings of the 4th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2017, held in Gurgaon, India, in October 2017. The 66 revised full papers presented were carefully reviewed and selected from 329 submissions. The papers are organized in topical sections on big data analysis, data centric programming, next generation computing, social and web analytics, security in data science analytics.

This textbook gives a hands-on, practical approach to system analysis and design within the framework of the systems development life cycle. The fifth edition now includes an additional CD-ROM.

Whether you're just starting out with Linux or looking to hone your existing skills, this book will provide you

with the knowledge you need. For new users, it is an exploration tour and getting started guide, with exercises at the end of each chapter. Advanced trainees can consider it a desktop reference, a collection of the base knowledge needed to tackle system and network administration. To help you work more effectively with Linux, this book contains hundreds of real life examples derived from the author's experience as a Linux system and network administrator, trainer and consultant. These examples will help you to get a better understanding of the Linux system and feel encouraged to try out things on your own.

Challenges and Mitigation Strategies

Data Science and Analytics

Inclusive Education For Special Children

Physics of Semiconductor Devices

Soft Computing for Problem Solving

Fundamentals of Telemedicine and Telehealth

Fundamentals of Telemedicine and Telehealth provides an overview on the use of information and communication technologies (ICTs) to solve health problems, especially for people living in remote and underserved areas. With the advent of new technologies and improvement of internet connectivity, telehealth has become a new subject requiring a new understanding of IT devices and how to utilize them to fulfill health needs. The book discusses topics such as digitizing patient information, technology requirements, existing resources, planning for telehealth projects, and primary care and specialized applications. Additionally, it discusses the use of telemedicine for patient empowerment and telecare in remote locations. Authored by IMIA Telehealth working group, this book is a valuable source for graduate students, healthcare workers, researchers and clinicians interested in using telehealth as part of their practice or research. Presents components of healthcare that can be benefitted from remote access and when to rely on them Explains the current technologies and tools and how to put them to effective use in daily healthcare Provides legal provisions for telehealth implementation, discussing the risks of remote healthcare provision and cross border care

This database design book provides the reader with a unique methodology for the conceptual and logical design of databases. A step-by-step method is given for developing a conceptual structure for large databases with multiple users. Additionally, the authors provide an up-to-date survey and analysis of existing database design tools.

This study examines the observations of U.S. military personnel who attended India's Defence Services Staff College (DSSC) at Wellington. Although the DSSC is a tri-service professional military education institution, this study focuses primarily on the Indian Army, the largest and most influential military service in India.

Collectively, U.S. personnel at the DSSC had sustained interaction over an extended period of time with three distinct groups of Indian Army officers: senior officers (brigadier through lieutenant general), senior midlevel (lieutenant colonel and colonel), and junior midlevel (captain and major). The study focuses on the attitudes and values of the Indian Army officer corps over a 38-year period, from 1979 to 2017, to determine if there was change over time, and if so, to understand the drivers of that change.

This book begins with you working along as Scott Guthrie builds a complete ASP.NET MVC reference application. He begins NerdDinner by using the File->New Project menu command within Visual Studio to create a new ASP.NET MVC Application. You'll then incrementally add functionality and features. Along the way you'll cover how to create a database, build a model layer with business rule validations, implement listing/details data browsing, provide CRUD (Create, Update, Delete) data form entry support, implement efficient data paging, reuse UI using master pages and partials, secure the application using authentication and authorization, use AJAX to deliver dynamic updates and interactive map support, and implement automated unit testing. From there, the bulk of the rest of the book begins with the basic concepts around the model view controller pattern, including the little history and the state of the MVC on the web today. We'll then go into the ways that MVC is different from ASP.NET Web Forms. We'll explore the structure of a standard MVC application and see what you get out of the box. Next we dig deep into routing and see the role URLs play in your application. We'll deep dive into controllers and views and see what role the Ajax plays in your applications. The last third of the book focuses entirely on advanced techniques and extending the framework. In some places, we assume that you're somewhat familiar with ASP.NET WebForms, at least peripherally. There are a lot of ASP.NET WebForms developers out there who are interested in ASP.NET MVC so there are a number of places in this book where we contrast the two technologies. Even if you're not already an ASP.NET developer, you might still find these sections interesting for context, as well as for your own edification as ASP.NET MVC may not be the web technology that you're looking for.

4th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2017, Gurgaon, India, October 13-14, 2017, Revised Selected Papers

An Algorithmic Approach

Professional ASP.NET MVC 1.0

The Wellington Experience

Computer Fundamentals & Programming in C

Proceedings of the Third International Conference on Design Computing and Cognition

This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International

Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics.

Caste, Business, and Industry in a Modern Nation

Artificial Intelligence: Concepts, Methodologies, Tools, and Applications

Handbook of Database Security

Scalable and Efficient Probabilistic Topic Model Inference for Textual Data

Challenges and Solutions

Computer Based Numerical & Statistical Techniques