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## MYA GILL

**Basic civil and mechanical engineering** Oxford University Press, USA  
 'Introduction to C Programming' is designed to serve as a textbook for the undergraduate students of engineering, computer applications and computer science for a basic course on C programming. The book focuses on the fundamentals to enable students to write effective C programs.

[Deep Learning for Cognitive Computing Systems](#) Springer Nature  
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environmental justice because of its consistent emphasis on social justice, rather than the prevailing predominant analyses from legal or environmental perspectives. It explores the themes of effectiveness and equity as they pertain to public policy instruments, such as environmental impact assessment, environmental licensing and enforcement, public hearings, and environmental activism strategies. The four interlinked dimensions of environmental justice, namely recognitional justice, procedural justice, distributive justice, and restorative justice, provide the core of the

**Counselling Guru**  
 Springer Nature  
 This interdisciplinary collection examines social equity and environmental justice in India. It assesses the effectiveness of environmental policies and institutions in rendering justice for marginalized communities while ensuring protection of the environment. It also analyses the influence of the neoliberal state and its political economies on the development and outcomes of these

policies and institutions. The book provides a unique perspective on environmental justice because of its consistent emphasis on social justice, rather than the prevailing predominant analyses from legal or environmental perspectives. It explores the themes of effectiveness and equity as they pertain to public policy instruments, such as environmental impact assessment, environmental licensing and enforcement, public hearings, and environmental activism strategies. The four interlinked dimensions of environmental justice, namely recognitional justice, procedural justice, distributive justice, and restorative justice, provide the core of the

book's conceptual framework. The contributions draw on ideas and methods from development studies, environmental geography, environmental law and policy, natural resource management, public administration, and political economy. The book concludes by considering planning, policy and institutional reforms and community-based initiatives that are needed to promote and protect environmental justice in India. Offering an important reference for researchers and scholars, this book will appeal to those in law, geography, environmental studies, natural resource management, development studies, sociology, and political science. It will also be of interest to community-based researchers, environmentalists and other civil society activists, natural resource managers, and policy makers.

The Hindu Index Technical Publications

Extensively revised and expanded to present the state-of-the-art in the field of magnetic design, this third edition presents a practical approach to transformer and inductor design and covers

extensively essential topics such as the area product, Ap, and core geometry, Kg. The book provides complete information on magnetic materials and core characteristics using step-by-step design examples and presents all the key components for the design of lightweight, high-frequency aerospace transformers or low-frequency commercial transformers. Written by a specialist with more than 47 years of experience in the field, this volume covers magnetic design theory with all of the relevant formulas.

Tancet MCA GRIN Verlag Recently, artificial intelligence (AI), the internet of things (IoT), and cognitive technologies have successfully been applied to various research domains, including computer vision, natural language processing, voice recognition, and more. In addition, AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications. On the other hand, network design and optimization for AI applications addresses a complementary topic,

namely the support of AI-based systems through novel networking techniques, including new architectures, as well as performance models for IoT systems. IoT has paved the way to a plethora of new application domains, at the same time posing several challenges as a multitude of devices, protocols, communication channels, architectures, and middleware exist. Big data generated by these devices calls for advanced learning and data mining techniques to effectively understand, learn, and reason with this volume of information, such as cognitive technologies. Cognitive technologies play a major role in developing successful cognitive systems which mimic "cognitive" functions associated with human intelligence, such as "learning" and "problem solving." Thus, there is a continuing demand for recent research in these two linked fields. The Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies discusses the latest innovations and applications of AI, IoT, and cognitive-based smart systems. The chapters

cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation, public policies, technologies and intellectual capital, innovation systems, competition and strategies, marketing and growth capability, and governance and relegation models. These applications span areas such as healthcare, security and privacy, industrial systems, multidisciplinary sciences, and more. This book is ideal for technologists, IT specialists, policymakers, government officials, academics, students, and practitioners interested in the experiences of innovations and applications of AI, IoT, and cognitive technologies.

**Proceedings of the National Conference on Computing for Nation Development** Guru

Vinayana Academy  
Project Report from the year 2017 in the subject Engineering - Computer Engineering, grade: 4.5, , language: English, abstract: In this project, we describe FAST TCP, a new TCP congestion control algorithm for high-speed long-latency networks, from design to

implementation. We highlight the approach taken by FAST TCP to address the four difficulties, at both packet and flow levels, which the current TCP implementation has at large windows. We describe the architecture and characterize the equilibrium and stability properties of FAST TCP. We present experimental results comparing our first Linux prototype with TCP Reno, HSTCP, and STCP in terms of throughput, fairness, stability, and responsiveness. FAST TCP aims to rapidly stabilize high-speed long-latency networks into steady, efficient and fair operating points, in dynamic sharing environments, and the preliminary results are produced as output of our project. We also explain our project with the help of an existing real-time example as to explain why we go for the TCP download rather than FTP download. The real-time example that is chosen is Torrents which we use for Bulk and safe-downloading. We finally conclude with the results of our new congestion control algorithm aided with the graphs obtained during its simulation in NS2.

Advanced Digital Signal

Processing Springer  
Science & Business Media  
Cognitive computing simulates human thought processes with self-learning algorithms that utilize data mining, pattern recognition, and natural language processing. The integration of deep learning improves the performance of Cognitive computing systems in many applications, helping in utilizing heterogeneous data sets and generating meaningful insights.

Power Electronics for Renewable Energy Systems, Transportation and Industrial Applications

IGI Global  
Compiles current research into the analysis and design of power electronic converters for industrial applications and renewable energy systems, presenting modern and future applications of power electronics systems in the field of electrical vehicles. With emphasis on the importance and long-term viability of Power Electronics for Renewable Energy this book brings together the state of the art knowledge and cutting-edge techniques in various stages of research. The topics included are

not currently available for practicing professionals and aim to enable the reader to directly apply the knowledge gained to their designs. The book addresses the practical issues of current and future electric and plug-in hybrid electric vehicles (PHEVs), and focuses primarily on power electronics and motor drives based solutions for electric vehicle (EV) technologies. Propulsion system requirements and motor sizing for EVs is discussed, along with practical system sizing examples. Key EV battery technologies are explained as well as corresponding battery management issues. PHEV power system architectures and advanced power electronics intensive charging infrastructures for EVs and PHEVs are detailed. EV/PHEV interface with renewable energy is described, with practical examples. This book explores new topics for further research needed world-wide, and defines existing challenges, concerns, and selected problems that comply with international trends, standards, and programs for electric power conversion, distribution, and

sustainable energy development. It will lead to the advancement of the current state-of-the-art applications of power electronics for renewable energy, transportation, and industrial applications and will help add experience in the various industries and academia about the energy conversion technology and distributed energy sources. Combines state of the art global expertise to present the latest research on power electronics and its application in transportation, renewable energy and different industrial applications. Offers an overview of existing technology and future trends, with discussion and analysis of different types of converters and control techniques (power converters, high performance power devices, power system, high performance control system and novel applications). Systematic explanation to provide researchers with enough background and understanding to go deeper in the topics covered in the book. Handbook of Research on

Innovations and Applications of AI, IoT, and Cognitive Technologies IGI Global

Engineering Chemistry-II serves as a textbook for the second semester course for I year BE/B. Tech students of Anna University, Chennai. The book is informative and exhaustive to meet the requirements of students who aim to assimilate authentic knowledge for use during engineering course as well as in their careers. The theoretical portions have been explained in simple language, clear style with lot of solved problems and illustrated diagrams. Academic and industrial communities will find this book a valuable resource. **Key Features** • Specifically designed for I year B.E. students of colleges affiliated to Anna University, Chennai. • The chapters are presented in simple language. • Suitable diagrams for clear understanding of the concepts. • The recent developments in the respective fields are included in all the chapters. • Comparative tables are presented where ever two similar concepts arise. • Many solved problems. • Review questions from previous Anna University

examinations at the end of each chapter.  
Recent Findings in Intelligent Computing Techniques IOS Press  
 Confusing Textbooks? Missed Lectures? Tough Test Questions? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time- and get your best test scores! Schaum's Outlines-Problem Solved. *Experiment and*

*Evaluation in Information Retrieval Models* Springer Nature  
 This book presents emerging concepts in data mining, big data analysis, communication, and networking technologies, and discusses the state-of-the-art in data engineering practices to tackle massive data distributions in smart networked environments. It also provides insights into potential data distribution challenges in ubiquitous data-driven networks, highlighting research on the theoretical and systematic framework for analyzing, testing and designing intelligent data analysis models for evolving communication frameworks. Further, the book showcases the latest developments in wireless sensor networks, cloud computing, mobile network, autonomous systems, cryptography, automation, and other communication and networking technologies. In addition, it addresses data security, privacy and trust, wireless networks, data classification, data prediction, performance analysis, data validation and verification models, machine learning, sentiment analysis, and various data analysis

techniques.  
**Biomedical Data Analysis and Processing Using Explainable (XAI) and Responsive Artificial Intelligence (RAI)** Springer Nature  
 This book presents best selected research papers presented at the International Conference on Computer Networks, Big Data and IoT (ICCBID 2020), organized by Vaigai College Engineering, Madurai, Tamil Nadu, India, during 15-16 December 2020. The book covers original papers on computer networks, network protocols and wireless networks, data communication technologies and network security. The book is a valuable resource and reference for researchers, instructors, students, scientists, engineers, managers and industry practitioners in those important areas.  
*Neural Networks for Natural Language Processing* Firewall Media  
 About CounsellingGuru  
 CounsellingGuru is a comprehensive guide for all the Engineering aspirants of Tamilnadu. This book is aimed at providing complete information about engineering studies and

statistical analysis on Tamilnadu Engineering Admissions [TNEA] counselling. It gives an insight to the reader about various branches of study in engineering and helps in selecting suitable branch of study based on one's personal preference and performance in final school year. Why CounsellingGuru? In the recent years, the interest towards engineering has increased among student community in Tamilnadu. Also in the last 13 years, the number of engineering colleges has increased approximately from 200 to 520+. In this scenario finding information about all the colleges and selecting the right branch in right college has become a tough task for any engineering aspirant. It is not easy, to come up with a right decision for one's career, based on the vast amount of information available in the internet and through other sources. One of the strongest motivations for writing this book is to provide complete information about different engineering branches, colleges, and the counselling process followed in Tamilnadu Engineering Admissions. Analyzing the information

about previous year counsellings, helps a student to take an informed decision about the suitable branch and college for his/her rank. Based on the counselling trend from the year 2007 to till date, this book is aimed at addressing the basic questions like 1. For one's TNEA rank, which is the best college and course? 2. What are the top colleges for a particular branch? 3. What does one learn in a particular Engineering branch? 4. Which branch & college was selected by a candidate with the same TNEA rank during the last few years? Counselling Guru will definitely help every engineering aspirant to take right decision for their career. What is inside? Engineering Branches - Overview, Scope of each branches, who can opt each branch, etc. List of all Engineering Colleges in Tamilnadu - Coming under Anna University Counselling Top Engineering Colleges - Overall (Top 100) and Branch-wise (Top 50) priority list TNEA Historic data analysis from TNEA 2007 onward Counselling Worksheet for TNEA Tips for choosing payment seats Guidelines for

students and parents appearing for Engineering counselling The guidelines given in this book are developed by authors based on their rich experience in academics and engineering industry. More Info @ <http://www.counselling.guru/counsellingguru.html> *Computer Networks, Big Data and IoT* Rudra Publications The Proceedings of SocProS 2014 serves as an academic bonanza for scientists and researchers working in the field of Soft Computing. This book contains theoretical as well as practical aspects using fuzzy logic, neural networks, evolutionary algorithms, swarm intelligence algorithms, etc., with many applications under the umbrella of 'Soft Computing'. The book is beneficial for young as well as experienced researchers dealing across complex and intricate real world problems for which finding a solution by traditional methods is a difficult task. The different application areas covered in the Proceedings are: Image Processing, Cryptanalysis, Industrial Optimization, Supply Chain Management, Newly Proposed Nature Inspired

Algorithms, Signal Processing, Problems related to Medical and Healthcare, Networking Optimization Problems, etc.

*Engineering Chemistry-II*  
(Anna University)

Routledge

This three volume book contains the Proceedings of 5th International Conference on Advanced Computing, Networking and Informatics (ICACNI 2017). The book focuses on the recent advancement of the broad areas of advanced computing, networking and informatics. It also includes novel approaches devised by researchers from across the globe. This book brings together academic scientists, professors, research scholars and students to share and disseminate information on knowledge and scientific research works related to computing, networking, and informatics to discuss the practical challenges encountered and the solutions adopted. The book also promotes translation of basic research into applied investigation and convert applied investigation into practice.

*Manufacturing Technology for Aerospace Structural Materials* McGraw Hill

Professional

The rapidly-expanding aerospace industry is a prime developer and user of advanced metallic and composite materials in its many products. This book concentrates on the manufacturing technology necessary to fabricate and assemble these materials into useful and effective structural components. Detailed chapters are dedicated to each key metal or alloy used in the industry, including aluminum, magnesium, beryllium, titanium, high strength steels, and superalloys. In addition the book deals with composites, adhesive bonding and presents the essentials of structural assembly. This book will be an important resource for all those involved in aerospace design and construction, materials science and engineering, as well as for metallurgists and those working in related sectors such as the automotive and mass transport industries. Flake Campbell Jr has over thirty seven years experience in the aerospace industry and is currently Senior Technical Fellow at the Boeing Phantom Works in Missouri, USA. \* All major aerospace structural materials covered: metals

and composites \* Focus on details of manufacture and use \* Author has huge experience in aerospace industry \* A must-have book for materials engineers, design and structural engineers, metallurgical engineers and manufacturers for the aerospace industry  
*DIGITAL COMMUNICATION*  
CRC Press

The book discusses Explainable (XAI) and Responsive Artificial Intelligence (RAI) for biomedical and healthcare applications. It will discuss the advantages in dealing with big and complex data by using explainable AI concepts in the field of biomedical sciences. The book explains both positive as well as negative findings obtained by explainable AI techniques. It features real time experiences by physicians and medical staff for applied deep learning based solutions. The book will be extremely useful for researchers and practitioners in advancing their studies.

*Advances in Signal Processing and Communication Engineering* CRC Press

This book provides a comprehensive introduction to all major

topics in digital signal processing (DSP). The book is designed to serve as a textbook for courses offered to undergraduate students enrolled in electrical, electronics, and communication engineering disciplines. The text is augmented with many illustrative examples for easy understanding of the topics covered. Every chapter contains several numerical problems with answers followed by question-and-answer type assignments. The detailed coverage and pedagogical tools make this an ideal textbook for students and researchers enrolled in electrical engineering and related programs.

**Fast Active Queue Management Stability Transmission Control Protocol (FAST TCP)**

Springer Nature  
Signal processing applications frequently encounter multi-dimensional real-time performance requirements and restrictions on resources, which makes software implementation complex. Although major advances have been made in embedded processor technology for this application domain particularly, in technology

for programmable digital signal processors - traditional compiler techniques applied to such platforms do not generate machine code of desired quality.

Consequently, low-level, human-driven fine-tuning of software implementations is needed, and we are therefore in need of more effective strategies for software implementation for signal processing applications. In this book, a number of important memory and performance optimization problems are addressed for translating high-level representations of signal processing applications into embedded software implementations. This book covers selected topics in advanced digital signal processing (DSP), including theories and applications, containing contributions by a large number of experts around the world. It is intended to provide highlights of the current trends in the digital signal processing area, showing the recent advances in this field. The covered chapters present practical advances and recent applications of digital signal processing in several areas as communications, filtering,

medicine, astronomy, and image processing. This book will fulfill the need of students and researchers in the digital signal processing and related areas as well as appeal to anyone with a scientific background desiring to have knowledgeable overview of this field.

**Proceedings of the International Conference on Electromagnetic Interference and Compatibility** Elsevier

This two-volume set (CCIS 905 and CCIS 906) constitutes the refereed proceedings of the Second International Conference on Advances in Computing and Data Sciences, ICACDS 2018, held in Dehradun, India, in April 2018. The 110 full papers were carefully reviewed and selected from 598 submissions. The papers are centered around topics like advanced computing, data sciences, distributed systems organizing principles, development frameworks and environments, software verification and validation, computational complexity and cryptography, machine learning theory, database theory, probabilistic representations.