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Utilizing Information Technology Systems Across Disciplines: Advancements in the Application of Computer Science
Brooks/Cole Publishing Company
This guide was written for readers interested in learning the C++ programming language from scratch, and for both novice and advanced C++ programmers wishing to enhance their knowledge of C++. The text is organized to guide the reader from elementary language concepts to professional software development, with in depth coverage of all the C++ language elements en route.

Springer
Because of its inherent simplicity, graph theory has a wide range of applications in engineering, and in physical sciences. It has of course uses in social sciences, in linguistics and in numerous other areas. In fact, a graph can be used to represent almost any physical situation involving discrete objects and the relationship among them. Now with the solutions to engineering and other problems becoming so complex leading to larger graphs, it is virtually difficult to analyze without the use of computers. This book is recommended in IIT Kharagpur, West Bengal for B.Tech Computer Science, NIT Arunachal Pradesh, NIT Nagaland, NIT Agartala, NIT Silchar, Gauhati University, Dibrugarh University, North Eastern Regional Institute of Management, Assam Engineering College, West Bengal Univerity of Technology (WBUT) for B.Tech, M.Tech Computer Science, University of Burdwan, West Bengal for B.Tech. Computer Science, Jadavpur University, West Bengal for M.Sc. Computer Science, Kalyani College of Engineering, West Bengal for B.Tech. Computer Science. Key Features: This book provides a rigorous yet informal treatment of graph theory with an emphasis on computational aspects of graph theory and graph-theoretic algorithms. Numerous applications to actual engineering problems are incorpo-rated with software design and optimization topics.

... Italian Conference, ICTCS ... : Proceedings Springer Science & Business Media
Building on the success of the first edition, UMTS Networks second edition allows readers to continue their journey through UMTS up to the latest 3GPP standardization phase, Release 5. Containing revised, updated and brand new material, it provides a comprehensive view on the UMTS network architecture and its latest developments. Accompanied by numerous illustrations, the practical approach of the book benefits from the authors' pioneering research and training in this field. Provides a broad yet detailed overview of the latest worldwide developments in UMTS technology. Includes brand new sections on the IP Multimedia Subsystem and High Speed Downlink Packet Access according to 3GPP Release 5 specifications. Contains heavily revised sections on the evolution from GSM to UMTS Multi-access, the UMTS Radio Access Network, the UMTS Core Network and services. Includes updated versions on services in the UMTS environment, security in the UMTS environment and UMTS protocols. Illustrates all points with cutting-edge practical examples gleaned from the authors' research and training at the forefront of UMTS. The illustrative, hands-on approach will appeal to operators, equipment vendors, systems designers, developers and marketing professionals who require comprehensive, practical information on the latest developments in UMTS. This second edition will also benefit students and researchers in the field of mobile networking.

Calculus Cambridge University Press
The book is designed to help the first year engineering students in building their concepts in the course on Programming for Problem Solving. It introduces the subject in a simple and lucid manner for a better understanding. It adopts a student friendly approach to the subject matter with many solved examples and unsolved questions, illustrations and well-structured C programs.

Network World BPB Publications
This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

Robotics in Education IGI Global
From the mysterious cult of Pythagoras to the awesome mechanics of Stonehenge to the "gargoyles" and fractals on today's computers, mathematics has always been a powerful, even divine force in the world. In a lively, intelligent synthesis of math, mysticism, and science fiction, Clifford Pickover explains the eternal magic of numbers. Taking a uniquely humorous approach, he appoints readers "Chief Historian" of an intergalactic museum and sends them, along with a quirky cast of characters, hurtling through the ages to explore how individuals used numbers for such purposes as predicting the end of the world, finding love, and winning wars.

Mathematics for Computer Science Springer Science & Business Media
This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

Theoretical Computer Science World Health Organization
Getting familiar with cloud computing features from scratch to advanced. KEY FEATURES   Detailed coverage on Cloud fundamentals, Cloud Service Models, and deployment models.   Easy, detailed, and practical approach to develop skills on working with Cloud Computing.   Includes charts, diagrams, and graphical illustrations for better visual learning on complex topics of cloud computing. DESCRIPTION Cloud computing is a technology that allows you to store, access data and programs over the internet instead of the hard drive or a server. In this book, you will gain knowledge about the fundamentals of cloud computing. This book includes a detailed description of the features of the cloud, the importance of cloud in today's era, and uses of cloud computing. This book provides you with a deep knowledge of the basics of cloud computing. You will learn about the characteristics, architecture, and uses of cloud computing. This

book also explores the concept of scalability and redundancy regarding cloud computing. You will learn about the various cloud deployment and service models. You will also gain knowledge of virtualization technology. You will also have a guided tour of concepts related to cloud management, data storage and security, and cloud operations and technologies. At the end of the book, you will learn about the advanced concepts of cloud computing and also learn about mobile cloud computing. WHAT YOU WILL LEARN   In-depth understanding on the fundamentals of cloud computing.   Explore the role and importance of cloud computing across businesses and enterprises.   Learn about cloud deployment models and service models.   Gain knowledge on cloud storage, cloud security, administration of cloud and mobile cloud computing. WHO THIS BOOK IS FOR This book is open to all graduates, beginners and working professionals to help them understand everything about cloud computing and how to operate in a cloud environment. TABLE OF CONTENTS 1. Introduction 2. Architecture and Applications 3. Scalability and Redundancy 4. Cloud Services 5. Cloud Deployment Models 6. Virtualization 7. Management 8. Data Storage and Security 9. Operations and Challenges 10. Technologies and Service Providers 11. Cloud Cube Model 12. Mobile Cloud Computing

Springer Science & Business Media
Written As Per Bangalore University Syllabus. Covers Biochemistry, Mathematics, Statistics And Introduction To Computer Science. Large Number Of Worked Examples And Illustrations. Summary At The End Of Each Chapter. A Large Number Of Theory Questions That Help Make Concepts Clear And Exercise Problems For Practice. An Exhaustive List Of Formulae That Will Serve As Ready Reckoner For Last Minute References.

RiE 2021 Springer Nature
Strictly as per the Term-II syllabus for Board 2022 Exams (March-April) Includes Questions of the both -Objective & Subjective Types Questions Objective Questions based on new typologies introduced by the board- Stand- Alone MCQs, MCQs based on Assertion-Reason Case-based MCQs. Subjective Questions includes-Very Short, Short & Long Answer Types Questions Previous Years' Questions with Board Marking Scheme Answers Revision Notes for in-depth study Modified & Empowered Mind Maps & Mnemonics for quick learning Chapter wise Learning Outcomes & Art integration as per NEP Include Questions from CBSE official Question Bank released in April 2021 Unit wise Self -Assessment Tests & Practice Papers Concept videos for blended learning (science & maths only)

Discrete Mathematics for Computer Science S. Chand Publishing
This book comprises the latest achievements in research and development in educational robotics presented at the 12th International Conference on Robotics in Education (RiE), which was carried out as a purely virtual conference from April 28 to 30, 2021. Researchers and educators find valuable methodologies and tools for robotics in education that encourage learning in the fields of science, technology, engineering, arts, and mathematics (STEAM) through the design, creation, and programming of tangible artifacts for creating personally meaningful objects and addressing real-world societal needs. This also involves the introduction of technologies ranging from robotics platforms to programming environments and languages. Evaluation results prove the impact of robotics on the students' interests and competence development. The presented approaches cover the whole educative range from kindergarten, primary and secondary school, to the university level and beyond.

Genetics and Biotechnology River Publishers
The Larson CALCULUS program has a long history of innovation in the calculus market. It has been widely praised by a generation of students and professors for its solid and effective pedagogy that addresses the needs of a broad range of teaching and learning

styles and environments. Each title is just one component in a comprehensive calculus course program that carefully integrates and coordinates print, media, and technology products for successful teaching and learning. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Tapestries of Mathematics and Mysticism PHI Learning Pvt. Ltd.
This book has been thoroughly revised according to the syllabus of 1st year's 2nd semester students of all universities in Andhra Pradesh. The revised syllabus is being adopted by all the universities in Andhra Pradesh, following Common Core Syllabus 2015-16 (revised in 2016) based on CBCS. This book strictly covers the new curriculum for 1st year, 2nd semester of the theory as well as practical.

in Engineering and Computer Science New Age International
This book constitutes the proceedings of the 11th European Conference on Technology Enhanced Learning, EC-TEL 2016, held in Lyon, France, in September 2016. The 26 full papers, 23 short papers, 8 demo papers, and 33 poster papers presented in this volume were carefully reviewed and selected from 148 submissions.

Biotechnology- I : Including Biochemistry,Mathematics,Computer Science Vintage
For B.Sc I yr students as per the new syllabus of UGC curriculum for all Indian Universities. The present book has two sections. Section I covers 1 which includes chapters on Mechanics, oscillations and Properties of Matter. Section II covers course 2 which includes chapters on Electricity, Magnetism and Electromagnetic theory.

Advancements in the Application of Computer Science Springer Science & Business Media
Provides original material concerned with all aspects of information resources management, managerial and organizational applications, as well as implications of information technology.

Theoretical Aspects of Computer Science JAYPEE BROTHERS PUBLISHERS
Over the period of last few decades, the 'C' language has become an icon for computer programmers. The field of computer science has undergone tremendous change, and the rate of obsolescence of concepts, programming platforms, tools and utilities is extremely high. However, in spite of such vast changes, the only thing that has retained its stability is the 'C' language. Even today, millions of students, hobbyists and professional programmers enjoy the sturdiness, reliability and user friendliness of the 'C' language. Today 'C' enjoys the undisputable recognition in the computing paradigm for diversified applications, from the basic programming, microcontrollers, and spreadsheets to system programming. In this book, most of the usual theoretical features have been skipped, for these have been widely published in previous books. Rather than introducing the underpinning theory, the authors approach has been "learning-through-doing", which is one that often appeals to programmers. Theory is followed by practical implementation, and in this way the book will cover programming aspects in a self-tutor manner providing an excellent overview, from basic to advance programming. Topics discussed include: GCC interfaceFirst time 'C' UserDecision and looping structuresArrays and pointersFunctions, structures and unionLinear data structures

Foundations of Data Science Sterling Publishing Company, Inc.
This book constitutes the refereed proceedings of the 8th Italian Conference on Theoretical Computer Science, ICTCS 2003, held in Bertinoro, Italy in October 2003. The 27 revised full papers presented together with an invited paper and abstracts of 2 invited talks were carefully reviewed and selected from 65 submissions. The papers are organized in topical sections on program design-models and analysis, algorithms and complexity, semantics and formal languages, and security and cryptography.

Concise B.sc Maths-2nd Sem(karnatka Unv) John Wiley & Sons
This book presents a comprehensive overview of extant literature on competence-based vocational and professional education since the introduction of the competence concept in the 1950s. To structure the fi eld, the book distinguishes between three approaches to defi ning competence, based on 1.functional behaviourism, 2. integrated occupationalism, and 3. situated professionalism. It also distinguishes between two ways of

operationalizing competence: 1. behaviour-oriented generic, and 2. task-oriented specifi c competence. Lastly, it identifi es three kinds of competencies, related to: 1. specific activities, 2. known jobs, and 3. the unknown future. Competence for the unknown future must receive more attention, as our world is rapidly evolving and there are many 'glocal' challenges which call for innovation and a profound transformation of policies and practices. Th e book presents a range of diff erent approaches to competence-based education, and demonstrates that competencebased education is a worldwide innovation, which is institutionalized in various ways. It presents the major theories and policies, specifi c components of educational systems, such as recognition, accreditation, modelling and assessment, and developments in discipline-oriented and transversal competence domains. Th e book concludes by synthesizing the diff erent perspectives with the intention to contribute to further improving vocational and professional education policy and practice. Joao Santos, Deputy Head of Unit C5, Vocational Training and Adult Education, Directorate General for Employment, Social Aff airs and Inclusion, European Commission: "This comprehensive work on competence-based education led by Martin Mulder, provides an excellent and timely contribution to the current debate on a New Skills Agenda for Europe, and the challenge of bridging the employment and education and training worlds closer together. Th is book will infl uence our work aimed at improving the relevance of vocational education to support initial and continuing vocational education and training policy and practice aimed at strengthening the key competencies for the 21st century." Prof. Dr. Reinhold Weiss, Deputy President and Head of the Research, Federal Institute for Vocational Education and Training (BIBB), Bonn, Germany: "This book illustrates that the idea and concept of competence is not only a buzzword in educational debates but key to innovative pedagogical thinking as well as educational practice." Prof. Dr. Johanna Lasonen, College of Education, University of South Florida, Tampa, USA: "Competence-based Vocational and Professional Education is one of the most important multi-disciplinary book in education and training. Th is path-breaking book off ers a timely, rich and global perspective on the fi eld. Th e book is a good resource for practitioners, policymakers and researchers."

Explore Application of Cloud, Cloud Deployment Models, Service Models and Mobile Cloud Computing (English Edition) Pearson Education India
Medical Eligibility Criteria for Contraceptive Use reviews the medical eligibility criteria for use of contraception, offering guidance on the safety and use of different methods for women and men with specific characteristics or known medical conditions. The recommendations are based on systematic reviews of available clinical and epidemiological research. It is a companion guideline to Selected Practice Recommendations for Contraceptive Use. Together, these documents are intended to be used by policy-makers, program managers, and the scientific community to support national programs in the preparation of service delivery guidelines. The fourth edition of this useful resource supersedes previous editions, and has been fully updated and expanded. It includes over 86 new recommendations and 165 updates to recommendations in the previous edition. Guidance for populations with special needs is now provided, and a new annex details evidence on drug interactions from concomitant use of antiretroviral therapies and hormonal contraceptives. To assist users familiar with the third edition, new and updated recommendations are highlighted. Everyone involved in providing family planning services and contraception should have the fourth edition of Medical Eligibility Criteria for Contraceptive Use at hand.