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GRAPH THEORY

Laxmi Publications

DATA MINING

THE TEXTBOOK

Springer This textbook explores the different aspects of data mining from the fundamentals to the complex data types and their applications, capturing the wide diversity of problem domains for data mining issues. It goes beyond the traditional focus on data mining problems to introduce advanced data types such as text, time series, discrete sequences, spatial data, graph data, and social networks. Until now, no single book has addressed all these topics in a comprehensive and integrated way. The chapters of this book fall into one of three categories: **Fundamental chapters:** Data mining has four main problems, which correspond to clustering, classification, association pattern mining, and outlier analysis. These chapters comprehensively discuss a wide variety of methods for these problems. **Domain chapters:** These chapters discuss the specific methods used for different domains of data such as text data, time-series data, sequence data, graph data, and spatial data. **Application chapters:** These chapters study important applications such as stream mining, Web mining, ranking, recommendations, social networks, and privacy preservation. The domain chapters also have an applied flavor. Appropriate for both introductory and advanced data mining courses, *Data Mining: The Textbook* balances mathematical details and intuition. It contains the necessary mathematical details for professors and researchers, but it is presented in a simple and intuitive style to improve accessibility for students and industrial practitioners (including those with a limited mathematical background). Numerous illustrations, examples, and exercises are included, with an emphasis on semantically interpretable examples. Praise for *Data Mining: The Textbook* - "As I read through this book, I have already decided to use it in my classes. This is a book written by an outstanding researcher who has made fundamental contributions to data mining, in a way that is both accessible and up to date. The book is complete with theory and practical use cases. It's a must-have for students and professors alike!" -- Qiang Yang, Chair of Computer Science and Engineering at Hong Kong University of Science and Technology "This is the most amazing and comprehensive text book on data mining. It covers not only the fundamental problems, such as clustering, classification, outliers and frequent patterns, and different data types, including text, time series, sequences, spatial data and graphs, but also various applications, such as recommenders, Web, social network and privacy. It is a great book for graduate students and researchers as well as practitioners." -- Philip S. Yu, UIC Distinguished Professor and Wexler Chair in Information Technology at University of Illinois at Chicago

PARALLEL SORTING ALGORITHMS

Academic Press *Parallel Sorting Algorithms* explains how to use parallel algorithms to sort a sequence of items on a variety of parallel computers. The book reviews the sorting problem, the parallel models of computation, parallel algorithms, and the lower bounds on the parallel sorting problems. The text also presents twenty different algorithms, such as linear arrays, mesh-connected computers, cube-connected computers. Another example where algorithm can be applied is on the shared-memory SIMD (single instruction stream multiple data stream) computers in which the whole sequence to be sorted can fit in the respective primary memories of the computers (random access memory), or in a single shared memory. SIMD processors communicate through an interconnection network or the processors communicate through a common and shared memory. The text also investigates the case of external sorting in which the sequence to be sorted is bigger than the available primary memory. In this case, the algorithms used in external sorting is very similar to those used to describe internal sorting, that is, when the sequence can fit in the primary memory, The book explains that an algorithm can reach its optimum possible operating time for sorting when it is running on a particular set of architecture, depending on a constant multiplicative factor. The text is suitable for computer engineers

and scientists interested in parallel algorithms.

DISTRIBUTED COMPUTING

A LOCALITY-SENSITIVE APPROACH

SIAM Gives a thorough exposition of network spanners and other locality-preserving network representations such as sparse covers and partitions.

MARKETING RESEARCH

Nirali Prakashan

DIGITAL DESIGN

Pearson Educación For sophomore courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. & Digital Design, fourth edition is a modern update of the classic authoritative text on digital design.& This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

DESIGN AND ANALYSIS OF ALGORITHMS

I. K. International Pvt Ltd This book is designed for the way we learn and intended for one-semester course in Design and Analysis of Algorithms . This is a very useful guide for graduate and undergraduate students and teachers of computer science. This book provides a coherent and pedagogically sound framework for learning and teaching. Its breadth of coverage insures that algorithms are carefully and comprehensively discussed with figures and tracing of algorithms. Carefully developing topics with sufficient detail, this text enables students to learn about concepts on their own, offering instructors flexibility and allowing them to use the text as lecture reinforcement. Key Features: " Focuses on simple explanations of techniques that can be applied to real-world problems." Presents algorithms with self-explanatory pseudocode." Covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers." Includes chapter summary, self-test quiz and exercises at the end of each chapter. Key to quizzes and solutions to exercises are given in appendices.

DATA STRUCTURES USING C++

OUP India Data Structures Using C++ is designed to serve as a textbook for undergraduate engineering students of Computer Science and Information Technology as well as postgraduate students of Computer Applications. The book aims to provide a comprehensive coverage of the concepts of Data Structures using C++.

UTILIZATION OF ELECTRIC POWER AND ELECTRIC TRACTION

IN R.M.K.S.A. SYSTEM OF UNITS FOR DEGREE, A.M.I.E. SEC. B, DIPLOMA AND OTHER EQUIVALENT ENGINEERING EXAMINATIONS

DESIGN AND ANALYSIS OF ALGORITHMS

DAA

Bhupendra Singh Mandloi This book contains algorithms and equivalent program and also calculate complexity of algorithms. After reading this book anybody can be in the position to find complexity.

PAIRWISE INDEPENDENCE AND DERANDOMIZATION

Now Publishers Inc Pairwise Independence and Derandomization gives several applications of the following paradigm, which has proven extremely powerful in algorithm design and computational complexity. First, design a probabilistic algorithm for a given problem. Then, show that the correctness analysis of the algorithm remains valid even when the random strings used by the algorithm do not come from the uniform distribution, but rather from a small sample space, appropriately chosen. In some cases this can be proven directly (giving "unconditional derandomization"), and in others it uses

computational assumptions, like the existence of 1-way functions (giving "conditional derandomization"). Pairwise Independence and Derandomization is self contained, and is a prime manifestation of the "derandomization" paradigm. It is intended for scholars and graduate students in the field of theoretical computer science interested in randomness, derandomization and their interplay with computational complexity.

COMPILER CONSTRUCTION

Springer Science & Business Media Compilers and operating systems constitute the basic interfaces between a programmer and the machine for which he is developing software. In this book we are concerned with the construction of the former. Our intent is to provide the reader with a firm theoretical basis for compiler construction and sound engineering principles for selecting alternate methods, implementing them, and integrating them into a reliable, economically viable product. The emphasis is upon a clean decomposition employing modules that can be re-used for many compilers, separation of concerns to facilitate team programming, and flexibility to accommodate hardware and system constraints. A reader should be able to understand the questions he must ask when designing a compiler for language X on machine Y, what tradeoffs are possible, and what performance might be obtained. He should not feel that any part of the design rests on whim; each decision must be based upon specific, identifiable characteristics of the source and target languages or upon design goals of the compiler. The vast majority of computer professionals will never write a compiler. Nevertheless, study of compiler technology provides important benefits for almost everyone in the field . • It focuses attention on the basic relationships between languages and machines. Understanding of these relationships eases the inevitable transitions to new hardware and programming languages and improves a person's ability to make appropriate tradeoffs in design and implementation .

EXPLORING C

HOW TO SOLVE IT BY COMPUTER

Pearson Education India

HYDROLOGY AND WATER RESOURCES OF INDIA

Springer Science & Business Media India is endowed with varied topographical features, such as high mountains, extensive plateaus, and wide plains traversed by mighty rivers. Divided into four sections this book provides a comprehensive overview of water resources of India. A detailed treatment of all major river basins is provided. This is followed by a discussion on major uses of water in India. Finally, the closing chapters discuss views on water management policy for India.

SOCIAL MEDIA MARKETING

THE NEXT GENERATION OF BUSINESS ENGAGEMENT

John Wiley & Sons How to implement social technology in business, spur collaborative innovation and drive winning programs to improve products, services, and long-term profits and growth. The road to social media marketing is now well paved: A July 2009 Anderson Analytics study found 60% of the Internet population uses social networks and social media sites such as Facebook, MySpace, and Twitter. Collaboration and innovation, driven by social technology, are "what's next." Written by the author of the bestselling Social Media Marketing: An Hour a Day in collaboration with Jake McKee, Social Media Marketing: The Next Generation of Business Engagement takes marketers, product managers, small business owners, senior executives and organizational leaders on to the next step in social technology and its application in business. In particular, this book explains how to successfully implement a variety tools, how to ensure higher levels of customer engagement, and how to build on the lessons learned and information gleaned from first-generation social media marketing efforts and to carry this across your organization. This book: Details how to develop, implement, monitor and measure successful social media activities, and how to successfully act on feedback from the social web Discusses conversation-monitoring tools and platforms to accelerate the business innovation cycle along with the metrics required to prove the success of social technology adoption Connects the social dots more deeply across the entire organization, moving beyond marketing and into product development, customer service and customer-driven innovation, and the benefits of encouraging employee collaboration. Social media has become a central component of marketing: Collaborative, social technology is now moving across the organization, into business functions ranging from HR and legal to product management and the supply chain. Social Media Marketing: The Next Generation of Business Engagement is the perfect book for marketers, business unit managers and owners, HR professionals and anyone else looking to better understand how to use social technologies and platforms to build loyalty in customers, employees, partners and suppliers to drive long term growth and profits.

APC TEXTBOOK OF FORENSIC MEDICINE AND TOXICOLOGY - AVICAL PUBLISHING COMPANY

Avichal Publishing Company Textbook of Forensic Medicine and Toxicology is a comprehensive book for undergraduate students of Forensic sciences. The book comprises chapters on thanatology, deaths from other causes, forensic psychiatry, forensic science, corrosive poisons, irritant poisons, and poisons acting on the brain and spinal cord. In addition, the book consists of several diagrams and illustrations to help understand the concepts better. This book is essential for forensic scientists.

ADVANCES IN INDUSTRIAL AND PRODUCTION ENGINEERING

SELECT PROCEEDINGS OF FLAME 2020

Springer Nature This book comprises the select proceedings of the 2nd International Conference on Future Learning Aspects of Mechanical Engineering (FLAME) 2020. In particular, this volume discusses different topics of industrial and production engineering such as sustainable manufacturing processes, logistics, Industry 4.0 practices, circular economy, lean six sigma, agile manufacturing, additive manufacturing, IoT and Big Data in manufacturing, 3D printing, simulation, manufacturing management and automation, surface roughness, multi-objective optimization and modelling for production processes, developments in casting, welding, machining, and machine tools. The contents of this book will be useful for researchers as well as industry professionals.

AN INTRODUCTION TO QUEUEING THEORY

MODELING AND ANALYSIS IN APPLICATIONS

Birkhäuser This introductory textbook is designed for a one-semester course on queueing theory that does not require a course on stochastic processes as a prerequisite. By integrating the necessary background on stochastic processes with the analysis of models, the work provides a sound foundational introduction to the modeling and analysis of queueing systems for a broad interdisciplinary audience of students in mathematics, statistics, and applied disciplines such as computer science, operations research, and engineering. This edition includes additional topics in methodology and applications. Key features: • An introductory chapter including a historical account of the growth of queueing theory in more than 100 years. • A modeling-based approach with emphasis on identification of models • Rigorous treatment of the foundations of basic models commonly used in applications with appropriate references for advanced topics. • A chapter on matrix-analytic method as an alternative to the traditional methods of analysis of queueing systems. • A comprehensive treatment of statistical inference for queueing systems. • Modeling exercises and review exercises when appropriate. The second edition of An Introduction of Queueing Theory may be used as a textbook by first-year graduate students in fields such as computer science, operations research, industrial and systems engineering, as well as related fields such as manufacturing and communications engineering. Upper-level undergraduate students in mathematics, statistics, and engineering may also use the book in an introductory course on queueing theory. With its rigorous coverage of basic material and extensive bibliography of the queueing literature, the work may also be useful to applied scientists and practitioners as a self-study reference for applications and further research. "...This book has brought a freshness and novelty as it deals mainly with modeling and analysis in applications as well as with statistical inference for queueing problems. With his 40 years of valuable experience in teaching and high level research in this subject area, Professor Bhat has been able to achieve what he aimed: to make [the work] somewhat different in content and approach from other books." - Assam Statistical Review of the first edition

TEST YOUR C SKILLS

NETWORKING COMMUNICATION AND DATA KNOWLEDGE ENGINEERING

VOLUME 1

Springer Data science, data engineering and knowledge engineering requires networking and communication as a backbone and have wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Recent Advancement in Computer, Communication and Computational Sciences (ICRACCCS 2016)', held at Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, India, during 25-26 November 2016. The volume covers variety of topics such as Advanced Communication Networks, Artificial Intelligence and Evolutionary Algorithms, Advanced Software Engineering and Cloud Computing, Image Processing and Computer Vision, and Security. The book will help the perspective readers from computer industry and academia to derive the advances of next generation communication and computational technology and shape them into real life applications.

THE SCIENTIST AND ENGINEER'S GUIDE TO DIGITAL SIGNAL PROCESSING

ENGINEERING CHEMISTRY

FUNDAMENTALS AND APPLICATIONS

Cambridge University Press Written in lucid language, the book offers a detailed treatment of fundamental concepts of chemistry and its engineering applications.

MAKING INDIA GREAT AGAIN

LEARNING FROM OUR HISTORY

Routledge How can India become a great country once again, is the question explored in this book. In the past, India had significant achievements in science, technology, mathematics and business. A failure to build robust institutional networks of information and trust and indifference of the state to business communities, brought all that crashing down within a generation. Many of these historical patterns persist till today. The ability to create wealth has everything to do with such networks. There was never any shortage of innovation in India. What was lacking was the ability to learn from their own experience. The building of learning networks and a learning ecosystem that could be used by people to leverage success – this is what is needed to unlock the huge talent pool that India possesses. This book addresses young, educated and aspiring Indians in different walks of life who are interested in contemporary issues relating to nation, society and economy. It puts forward some solutions to the problems that India faces. It would be of interest to anyone who would like to know how history can teach us to re-write the Indian growth story and to re-build a great nation. The book could also be used as reading material for students of history, political science, public administration, business administration, in under-graduate and post-graduate classes. Please note: This title is co-published with Manohar Publishers, New Delhi. Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka

ADVANCES IN COMPUTING AND DATA SCIENCES

THIRD INTERNATIONAL CONFERENCE, ICACDS 2019, GHAZIABAD, INDIA, APRIL 12-13, 2019, REVISED SELECTED PAPERS, PART II

This two-volume set (CCIS 1045 and CCIS 1046) constitutes the refereed proceedings of the Third International Conference on Advances in Computing and Data Sciences, ICACDS 2019, held in Ghaziabad, India, in April 2019. The 112 full papers were carefully reviewed and selected from 621 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.

DECARBONIZING DEVELOPMENT

THREE STEPS TO A ZERO-CARBON FUTURE

World Bank Publications The science is unequivocal: stabilizing climate change implies bringing net carbon emissions to zero. This must be done by 2100 if we are to keep climate change anywhere near the 2oC warming that world leaders have set as the maximum acceptable limit. Decarbonizing Development: Three Steps to a Zero-Carbon Future looks at what it would take to decarbonize the world economy by 2100 in a way that is compatible with countries' broader development goals. Here is what needs to be done: -Act early with an eye on the end-goal. To best achieve a given reduction in emissions in 2030 depends on whether this is the final target or a step towards zero net emissions. -Go beyond prices with a policy package that triggers changes in investment patterns, technologies and behaviors. Carbon pricing is necessary for an efficient transition toward decarbonization. It is an efficient way to raise revenue, which can be used to support poverty reduction or reduce other taxes. Policymakers need to adopt measures that trigger the required changes in investment patterns, behaviors, and technologies - and if carbon pricing is temporarily impossible, use these measures as a substitute. -Mind the political economy and smooth the transition for those who stand to be most affected. Reforms live or die based on the political economy. A climate policy package must be attractive to a majority of voters and avoid impacts that appear unfair or are concentrated on a region, sector or community. Reforms have to smooth the transition for those who stand to be affected, by protecting vulnerable people but also sometimes compensating powerful lobbies.

MULTIMEDIA INFORMATION EXTRACTION AND DIGITAL HERITAGE PRESERVATION

World Scientific The volume focuses on research-oriented work, which can help opening up new vistas of research for the research community, and explore new mechanisms of retrieval of information from multimedia documents, particularly from heritage documents, apart from using the conventional methods.

INTELLIGENT COMPUTING TECHNIQUES FOR SMART ENERGY SYSTEMS

PROCEEDINGS OF ICTSES 2018

Springer Nature The book compiles the research works related to smart solutions concept in context to smart energy systems, maintaining electrical grid discipline and resiliency, computational collective intelligence consisted of interaction between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It includes high-quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur. This book will motivate scholars to work in these areas. The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval.

ADVANCES IN ENVIRONMENT ENGINEERING AND MANAGEMENT

PROCEEDINGS OF THE 1ST NATIONAL CONFERENCE ON SUSTAINABLE MANAGEMENT OF ENVIRONMENT AND NATURAL RESOURCE THROUGH INNOVATION IN SCIENCE AND TECHNOLOGY

Springer Nature This book presents the proceedings of the First National Conference on "Sustainable Management of Environment & Natural Resource through Innovation in Science and Technology" (SMTST2020). The book highlights the latest development and innovations in the fields of sustainability, natural resource management, ecology and its environmental fields, geosciences and geology, atmospheric sciences, sustainability, climate change, and extreme weather, global warming, and global change, the effect of climate change on the ecosystem, environment, and pollution, as well as putting a strong emphasis on the multidisciplinary studies.

LANGUAGES AND COMPILERS FOR PARALLEL COMPUTING

7TH INTERNATIONAL WORKSHOP, ITHACA, NY, USA, AUGUST 8 - 10, 1994. PROCEEDINGS

Springer Science & Business Media This volume presents revised versions of the 32 papers accepted for the Seventh Annual Workshop on Languages and Compilers for Parallel Computing, held in Ithaca, NY in August 1994. The 32 papers presented report on the leading research activities in languages and compilers for parallel computing and thus reflect the state of the art in the field. The volume is organized in sections on fine-grain parallelism, alignment and distribution, postlinear loop transformation, parallel structures, program analysis, computer communication, automatic parallelization, languages for parallelism, scheduling and program optimization, and program evaluation.

PROGRAMMING WITH JAVA - A PRIMER

THIRD EDITION

McGraw-Hill Professionals Programming with JAVA, 3e, incorporates all the updates and enhancements added to JAVA 2 and J2SE 5.0 releases. The book presents the language concepts in extremely simple and easy-to-understand style with illustrations and examples wherever necessary. Salient Features Fully explains the entire Java language. Discusses Java's unique features such as packages and interfaces. Shows how to create and implement applets. Illustrates the use of advanced concepts like multithread and graphics. Covers exception handling in depth. Debugging exercises and two full-fledged projects. Includes model questions from the Sun Certified JAVA Programmer Exam.

C PROJECTS

This Book Gives You A Better Reason To Eye Such Sleek Software With Confidence. The First Book Of Its Kind, C Projects Is A Veritable Treasure For All Those Who Have A Working Knowledge Of C, And An Incentive To Learn C For Those Who Haven'T. It Puts The Unbounded Potential Of C To Work In A Wide Range Of Software's. C Projects Gives You More Than 16000 Lines Of C Source Code. And That'S A Lot

Of Code! No Longer Are These Software'S Out Of Reach; You Can Now Enter The Fascinating World Of Creating Professional Level Software's, And Greet The Arrival Of Any New Package With The Wisdom Of One Who Knows!

DYNAMICS IN LOGISTICS

PROCEEDINGS OF THE 7TH INTERNATIONAL CONFERENCE LDIC 2020, BREMEN, GERMANY

Springer Nature Since 2007, the biennial International Conferences on Dynamics in Logistics (LDIC) offers researchers and practitioners from logistics, operations research, production, industrial and electrical engineering as well as from computer science an opportunity to meet and to discuss the latest developments in this particular research domain. From February 12th to 14th 2020 for the seventh time, LDIC 2020 is held in Bremen, Germany. Similar to its six predecessors, the Bremen Research Cluster for Dynamics in Logistics (LogDynamics) organizes this conference. The spectrum of topics reaches from the dynamic modeling, planning and control of processes over supply chain management and maritime logistics to innovative technologies and robotic applications for cyber-physical production and logistics systems. LDIC 2020 provides a forum for the discussion of advances in that matter. The conference program consists of three invited keynote speeches and 51 papers selected by a severe double-blind reviewing process. Within these proceedings all the papers are published. By this, the proceedings give an interdisciplinary outline on the state of the art of dynamics in logistics as well as identify challenges and solutions for logistics today and tomorrow.

SOFTWARE ENGINEERING

New Age International

DATA STRUCTURES USING C++

Cengage Learning Now in its second edition, D.S. Malik brings his proven approach to C++ programming to the CS2 course. Clearly written with the student in mind, this text focuses on Data Structures and includes advanced topics in C++ such as Linked Lists and the Standard Template Library (STL). The text features abundant visual diagrams, examples, and extended Programming Examples, all of which serve to illuminate difficult concepts. Complete programming code and clear display of syntax, explanation, and example are used throughout the text, and each chapter concludes with a robust exercise set. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

APPLIED SOFT COMPUTING

TECHNIQUES AND APPLICATIONS

Apple Academic Press This new volume explores a variety of modern techniques that deal with estimated models and give resolutions to complex real-life issues. Soft computing has played a crucial role not only with theoretical paradigms but is also popular for its pivotal role for designing a large variety of expert systems and artificial intelligence-based applications. Involving the concepts and practices of soft computing in conjunction with other frontier research domains, this book begins with the basics and goes on to explore a variety of modern applications of soft computing in areas such as approximate reasoning, artificial neural networks, Bayesian networks, big data analytics, bioinformatics, cloud computing, control systems, data mining, functional approximation, fuzzy logic, genetic and evolutionary algorithms, hybrid models, machine learning, metaheuristics, neuro fuzzy system, optimization, randomized searches, and swarm intelligence. This book will be helpful to a wide range of readers who wish to learn applications of soft computing approaches. It will be useful for academicians, researchers, students, and machine learning experts who use soft computing techniques and algorithms to develop cutting-edge artificial intelligence-based applications.

KNOW YOUR STATE WEST BENGAL

Arihant Publications India limited An editorial team of highly skilled professionals at Arihant, works hand in glove to ensure that the students receive the best and accurate content through our books. From inception till the book comes out from print, the whole team comprising of authors, editors, proofreaders and various other involved in shaping the book put in their best efforts, knowledge and experience to produce the rigorous content the students receive. Keeping in mind the specific requirements of the students and various examinations, the carefully designed exam oriented and exam ready content comes out only after intensive research and analysis. The experts have adopted whole new style of presenting the content which is easily understandable, leaving behind the old traditional methods which once used to be the most effective. They have been developing the latest content & updates as per the needs and requirements of the students making our books a hallmark for quality and

reliability for the past 15 years.

PAVEMENT ANALYSIS AND DESIGN

For one/two-semester, undergraduate/graduate courses in Pavement Design. This up-to-date text covers both theoretical and practical aspects of pavement analysis and design. It includes some of the latest developments in the field, and some very useful computer software-developed by the author-with detailed instructions.

INTERACTIVE COMPUTER GRAPHICS

A TOP-DOWN APPROACH USING OPENGL

Addison-Wesley Longman Computer animation and graphics—once rare, complicated, and comparatively expensive—are now prevalent in everyday life from the computer screen to the movie screen. Interactive Computer Graphics is the only introduction to computer graphics text for undergraduates that fully integrates OpenGL and emphasizes application-based programming. Using C and C++, the top-down, programming-oriented approach allows for coverage of engaging 3D material early in the course so students immediately begin to create their own 3D graphics. Low-level algorithms (for topics such as line drawing and filling polygons) are presented after students learn to create graphics. This book is suitable for undergraduate students in computer science and engineering, for students in other disciplines who have good programming skills, and for professionals.

GENERALIZATIONS OF PYTHAGORAS THEOREM TO POLYGONS

Mathematics The book deals with the generalizations of Pythagoras theorem to polygons. The celebrated result of the Pythagoras theorem representing the sum of squares of two (positive) integers as the square of another integer has been extended to quadrilaterals composed of two right triangles so that the sum of squares of its first three sides equals the square of the remaining side. In the language of algebra, integral solutions of a quadratic equation $a^2 + b^2 + c^2 = d^2$ are explored. The first 18 Sections in the first chapter deal with the special cases when the length of the fourth side exceeds that of the third side by numeric values: 1-17. The last section consists of some miscellaneous results. For more details, please visit <https://centralwestpublishing.com>