

# Rajesh Maurya Computer Graphics

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*COMPUTER GRAPHICS WITH VIRTUAL REALITY SYSTEMS* - Rajesh K. Maurya  
2009-07-01

Special Features: " Discusses virtual reality in three dedicated chapters" Explains the topics with their theoretical, mathematical and programming perspectives" Presents topics form elementary display systems to the most advanced animation and virtual reality systems " Matches with the engineering syllabus of Mumbai UniversityIncludes over: § 262 neatly-drawn illustrations and figures§ 44 solved examples § 255 review questions § 70 multiple-choice questions and their solutions § 57 programming exercises as an appendix§ 40 programming practice About The Book: Computer Graphics with Virtual Reality Systems is a comprehensive book for undergraduate engineering students of computer science and information technology. The book is a must-have for students, professionals and practitioners interested in object design, transformation, visualization and modeling of real world. Besides, the book is also useful to students of diploma courses and vocational courses at open universities, distance education universities in graphics and animation. Scholars and practitioners, studying computer graphics, image analysis and multimedia courses, can also find the book very helpful.

**Online Innovation** - Gijs van Wulven  
2021-09-16

After describing 10 common pitfalls, the

authors share great tools and techniques that work in practice. They discuss the Achilles' heel of innovating online and present 10 methodologies you can use for hands-on online innovation. The Lightning Decision Jam, the Design Sprint and the FORTH innovation method are highlighted in the book. The authors combine these methodologies into a new hybrid version. At the end of the book, you will find systematic descriptions of 25 tools and 10 methods. These will give a clear overview that will help you to pick the right ones for your online innovation journey. Innovating online is here to stay. There is a huge increase in hybrid innovation projects, combining in-person and online workshops, using all the online advantages while being personally engaged offline. Online Innovation supports all professionals who want to innovate online: consultants, coaches, facilitators, managers, and students in design (thinking) and innovation.

**Soft Computing: Theories and Applications** - Millie Pant 2020-02-24

The book focuses on soft computing and its applications to solve real-world problems in different domains, ranging from medicine and health care, to supply chain management, image processing and cryptanalysis. It includes high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2018), organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India.

Offering significant insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing.

**Tunnel Field-effect Transistors (TFET) -**

Jagadesh Kumar Mamidala 2016-09-27

Research into Tunneling Field Effect Transistors (TFETs) has developed significantly in recent times, indicating their significance in low power integrated circuits. This book describes the qualitative and quantitative fundamental concepts of TFET functioning, the essential components of the problem of modelling the TFET, and outlines the most commonly used mathematical approaches for the same in a lucid language. Divided into eight chapters, the topics covered include: Quantum Mechanics, Basics of Tunneling, The Tunnel FET, Drain current modelling of Tunnel FET: The task and its challenges, Modeling the Surface Potential in TFETs, Modelling the Drain Current, and Device simulation using Technology Computer Aided Design (TCAD). The information is well organized, describing different phenomena in the TFETs using simple and logical explanations. Key features: \* Enables readers to understand the basic concepts of TFET functioning and modelling in order to read, understand, and critically analyse current research on the topic with ease. \* Includes state-of-the-art work on TFETs, attempting to cover all the recent research articles published on the subject. \* Discusses the basic physics behind tunneling, as well as the device physics of the TFETs. \* Provides detailed discussion on device simulations along with device physics so as to enable researchers to carry forward their study on TFETs. Primarily targeted at new and practicing researchers and post graduate students, the book would particularly be useful for researchers who are working in the area of compact and analytical modelling of semiconductor devices.

*INTRODUCTION TO COMPUTER GRAPHICS - 2023*

**Recent Trends in Image Processing and Pattern Recognition - K. C. Santosh**

2021-03-22

This two-volume set constitutes the refereed proceedings of the Third International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) 2020, held in Aurangabad, India, in January 2020. The 78 revised full papers presented were carefully reviewed and selected from 329 submissions. The papers are organized in topical sections in the two volumes. Part I: Computer vision and applications; Data science and machine learning; Document understanding and Recognition. Part II: Healthcare informatics and medical imaging; Image analysis and recognition; Signal processing and pattern recognition; Image and signal processing in Agriculture.

**Expert Clouds and Applications - I. Jeena Jacob 2021-07-15**

This book features original papers from International Conference on Expert Clouds and Applications (ICOECA 2021), organized by GITAM School of Technology, Bangalore, India during February 18-19, 2021. It covers new research insights on artificial intelligence, big data, cloud computing, sustainability, and knowledge-based expert systems. The book discusses innovative research from all aspects including theoretical, practical, and experimental domains that pertain to the expert systems, sustainable clouds, and artificial intelligence technologies.

Computer Graphics - James D. Foley 1996

A guide to the concepts and applications of computer graphics covers such topics as interaction techniques, dialogue design, and user interface software.

**Intelligent Computing Techniques for Smart Energy Systems - Akhtar Kalam 2019-12-16**

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.

**A Textbook of Agronomy** - B. Chandrasekaran 2010

*Plastic and Reconstructive Surgery* - Ross Farhadieh 2015-06-02

Plastic and reconstructive surgery continues to evolve as new techniques open up new possibilities for the surgeon. In this groundbreaking textbook, contemporary approaches are explained and demonstrated to allow trainee and experienced surgeons alike to understand and assimilate best practice. Containing over 300 outstanding color figures demonstrating surgical practice, an international cast of leading surgeons show the paths to effective plastic surgery technique and outcomes. They cover all the major bases including: Integument Pediatric Plastic Surgery Head and Neck Reconstruction The Breast Trunk, Lower Limb and Sarcomas Upper Limb and Hand Surgery Aesthetic Surgery Comprehensive in scope, practical in nature, *Plastic and Reconstructive Surgery* is your one-stop guide to successful surgical management of your patients. "This textbook is aimed at the trainee and young plastic surgeon, but it is extremely comprehensive and sufficiently detailed for any practitioner. The information is succinct, yet complete and up to date. . . . For a single-volume book, the detailed knowledge presented is impressive. . . . I think this is a great book. It is packed with good and up-to-date information, and I think it will be an invaluable resource for trainees but also for all plastic surgeons. The editors are to be congratulated on achieving a very difficult task with such success." —from a review by Peter C. Neligan, MB, in *Plastic and Reconstructive*

*Surgery* "This is exactly what the editors of *Plastic and reconstructive surgery: Approaches and Techniques* set out to achieve in producing this excellent textbook. . . . It is truly an international effort at all levels, as the editors, from Australia (Ross D. Farhadieh), the UK (Neil W. Bulstrode) and Canada (Sabrina Cugno), have joined forces to recruit over 130 international contributors and produce a resource of over 1100 pages that provides a well-organized and thorough, yet succinct, text of the essentials of current plastic surgery. . . . Many of the contributors are world-renowned experts; however, there is also a new generation of young rising stars whose contributions are equally good, providing a new, fresh and contemporary feel." —from the Foreword by Julian J. Pribaz, Professor of Surgery, Harvard Medical School "The authors here have concentrated all this useful information into their chapters in a quite outstanding manner. Any plastic surgeon of whatever maturity will find this an excellent purchase which he/she will have no reason to regret." —from a review by Douglas H. Harrison in *Journal of Plastic, Reconstructive & Aesthetic Surgery* *Harmony Search Algorithm* - Joong Hoon Kim 2015-08-08

The Harmony Search Algorithm (HSA) is one of the most well-known techniques in the field of soft computing, an important paradigm in the science and engineering community. This volume, the proceedings of the 2nd International Conference on Harmony Search Algorithm 2015 (ICHSA 2015), brings together contributions describing the latest developments in the field of soft computing with a special focus on HSA techniques. It includes coverage of new methods that have potentially immense application in various fields. Contributed articles cover aspects of the following topics related to the Harmony Search Algorithm: analytical studies; improved, hybrid and multi-objective variants; parameter tuning; and large-scale applications. The book also contains papers discussing recent advances on the following topics: genetic algorithms; evolutionary strategies; the firefly algorithm

and cuckoo search; particle swarm optimization and ant colony optimization; simulated annealing; and local search techniques. This book offers a valuable snapshot of the current status of the Harmony Search Algorithm and related techniques, and will be a useful reference for practising researchers and advanced students in computer science and engineering.

Procedural Elements for Computer Graphics

- David F. Rogers 1998

This text offers complete coverage of computer graphics. As a textbook, it can be used effectively in senior-level computer graphics courses or in first year graduate-level courses. It features an emphasis on rendering and in-depth coverage of all classical computer graphics algorithms. Procedural Elements of Computer Graphics also contains more than 90 worked examples, and is suitable for use by professional programmers, engineers, and scientists.

Computer Graphics with An Introduction to Multimedia, 4th Edition

- Chopra Rajiv  
This well-written textbook discusses the concepts, principles and applications of Computer Graphics in a simple, precise and systematic manner. It explains how to manipulate visual and geometric information by using the computational techniques. It also incorporates several experiments to be performed in computer graphics and multimedia labs.

**India Unbound** - Gurcharan Das  
2002-04-09

India today is a vibrant free-market democracy, a nation well on its way to overcoming decades of widespread poverty. The nation's rise is one of the great international stories of the late twentieth century, and in India Unbound the acclaimed columnist Gurcharan Das offers a sweeping economic history of India from independence to the new millennium. Das shows how India's policies after 1947 condemned the nation to a hobbled economy until 1991, when the government instituted sweeping reforms that paved the way for extraordinary growth. Das traces

these developments and tells the stories of the major players from Nehru through today. As the former CEO of Proctor & Gamble India, Das offers a unique insider's perspective and he deftly interweaves memoir with history, creating a book that is at once vigorously analytical and vividly written. Impassioned, erudite, and eminently readable, India Unbound is a must for anyone interested in the global economy and its future.

Computer Graphics Using Open Gl (3rd Ed.) -  
- F. S. Hill Jr.

**Computer-Aided Drug Design** - Dev  
Bukhsh Singh 2020-10-09

This book provides up-to-date information on bioinformatics tools for the discovery and development of new drug molecules. It discusses a range of computational applications, including three-dimensional modeling of protein structures, protein-ligand docking, and molecular dynamics simulation of protein-ligand complexes for identifying desirable drug candidates. It also explores computational approaches for identifying potential drug targets and for pharmacophore modeling. Moreover, it presents structure- and ligand-based drug design tools to optimize known drugs and guide the design of new molecules. The book also describes methods for identifying small-molecule binding pockets in proteins, and summarizes the databases used to explore the essential properties of drugs, drug-like small molecules and their targets. In addition, the book highlights various tools to predict the absorption, distribution, metabolism, excretion (ADME) and toxicity (T) of potential drug candidates. Lastly, it reviews in silico tools that can facilitate vaccine design and discusses their limitations.

*Quantitative Aptitude for Competitive Examinations* - Abhijit Guha 1996

*Advances in Signal Processing and Intelligent Recognition Systems* - Sabu M. Thampi 2019-01-06

This book constitutes the refereed proceedings of the 4th International

Symposium on Advances in Signal Processing and Intelligent Recognition Systems, SIRS 2018, held in Bangalore, India, in September 2018. The 28 revised full papers and 11 revised short papers presented were carefully reviewed and selected from 92 submissions. The papers cover wide research fields including information retrieval, human-computer interaction (HCI), information extraction, speech recognition.

Virtual Reality Technology - Grigore C. Burdea 2017-11-01

A groundbreaking Virtual Reality textbook is now even better Virtual reality is a very powerful and compelling computer application by which humans interact with computer-generated environments in a way that mimics real life and engages various senses. Although its most widely known application is in the entertainment industry, the real promise of virtual reality lies in such fields as medicine, engineering, oil exploration, and the military, to name just a few. Through virtual reality, scientists can triple the rate of oil discovery, pilots can dogfight numerically superior "bandits," and surgeons can improve their skills on virtual (rather than real) patients. This Second Edition of the first comprehensive technical book on virtual reality provides updated and expanded coverage of the technology such as: Input and output interfaces including touch and force feedback Computing architecture (with emphasis on the rendering pipeline and task distribution) Object modeling (including physical and behavioral aspects) Programming for virtual reality (WorldToolKit, Java 3D, GHOST, and PeopleShop) An in-depth look at human factors issues, user performance, and sensorial conflict aspects of VR Traditional and emerging VR applications The new edition of Virtual Reality Technology is specifically designed for use as a textbook. Thus, it includes definitions, review questions, and a CD-ROM with video clips that reinforce the topics covered. The CD-ROM also contains a Laboratory Manual with homework and programming assignments in VRML and Java 3D, as follows: Introduction

to VRML and Java 3D Sensor and Event Processing VRML and JavaScript Scene Hierarchy, Geometry, and Texture VRML PROTO and Glove Devices Viewpoint Control, Sound, and Haptic Effects The Second Edition will serve as a state-of-the-art resource for both undergraduate and graduate students in engineering, computer science, and other disciplines.

Lingua TOEFL CBT Insider - Research Team 2003

"Providing diagnostic tests, practical exercises, helpful hints for improving scores, and explanations of the listening, reading, and writing sections of the test, this detailed TOEFL CBT primer covers all elements of effective test preparation. Useful insider tips such as time management during the test, frequency of question types, and TOEFL CBT scoring are offered. Listening scripts, answer keys, and answer explanations are included."

**Java: The Complete Reference, Eleventh Edition** - Herbert Schildt 2018-12-14

The definitive guide to Java programming—thoroughly revised for long-term support release Java SE 11 Fully updated for the current version of Java, Java SE 11, this practical guide from Oracle Press shows, step by step, how to design, write, troubleshoot, run, and maintain high-performance Java programs. Inside, bestselling author Herbert Schildt covers the entire Java language, including its syntax, keywords, and libraries. The book lays out cutting-edge programming techniques and best practices. Java: The Complete Reference, Eleventh Edition features clear explanations, detailed code samples, and real-world examples that demonstrate how Java can be put to work in the real world. JavaBeans, servlets, applets, Swing, lambda expressions, multithreading, and the default interface method are thoroughly discussed. You will get full details on all of the new features and functions available in Java SE 11. •Designed for novice, intermediate, and professional programmers alike•Source code for all examples and projects are available for download•Written in the clear,

uncompromising style Herb Schildt is famous for

**Computer Graphics** - Donald Hearn 1994  
A complete update of a bestselling introduction to computer graphics, this volume explores current computer graphics hardware and software systems, current graphics techniques, and current graphics applications. Includes expanded coverage of algorithms, applications, 3-D modeling and rendering, and new topics such as distributed ray tracing, radiosity, physically based modeling, and visualization techniques.

*Advanced Engineering Mathematics with MATLAB* - Dean G. Duffy 2022-01-03  
In the four previous editions the author presented a text firmly grounded in the mathematics that engineers and scientists must understand and know how to use. Tapping into decades of teaching at the US Navy Academy and the US Military Academy and serving for twenty-five years at (NASA) Goddard Space Flight, he combines a teaching and practical experience that is rare among authors of advanced engineering mathematics books. This edition offers a smaller, easier to read, and useful version of this classic textbook. While competing textbooks continue to grow, the book presents a slimmer, more concise option. Instructors and students alike are rejecting the encyclopedic tome with its higher and higher price aimed at undergraduates. To assist in the choice of topics included in this new edition, the author reviewed the syllabi of various engineering mathematics courses that are taught at a wide variety of schools. Due to time constraints an instructor can select perhaps three to four topics from the book, the most likely being ordinary differential equations, Laplace transforms, Fourier series and separation of variables to solve the wave, heat, or Laplace's equation. Laplace transforms are occasionally replaced by linear algebra or vector calculus. Sturm-Liouville problem and special functions (Legendre and Bessel functions) are included for completeness. Topics such as z-transforms and complex

variables are now offered in a companion book, *Advanced Engineering Mathematics: A Second Course* by the same author. MATLAB is still employed to reinforce the concepts that are taught. Of course, this Edition continues to offer a wealth of examples and applications from the scientific and engineering literature, a highlight of previous editions. Worked solutions are given in the back of the book.

**Embedded Systems Architecture** - Tammy Noergaard 2012-12-31  
Embedded Systems Architecture is a practical and technical guide to understanding the components that make up an embedded system's architecture. This book is perfect for those starting out as technical professionals such as engineers, programmers and designers of embedded systems; and also for students of computer science, computer engineering and electrical engineering. It gives a much-needed 'big picture' for recently graduated engineers grappling with understanding the design of real-world systems for the first time, and provides professionals with a systems-level picture of the key elements that can go into an embedded design, providing a firm foundation on which to build their skills. Real-world approach to the fundamentals, as well as the design and architecture process, makes this book a popular reference for the daunted or the inexperienced: if in doubt, the answer is in here! Fully updated with new coverage of FPGAs, testing, middleware and the latest programming techniques in C, plus complete source code and sample code, reference designs and tools online make this the complete package Visit the companion web site at <http://booksite.elsevier.com/9780123821966/> for source code, design examples, data sheets and more A true introductory book, provides a comprehensive get up and running reference for those new to the field, and updating skills: assumes no prior knowledge beyond undergrad level electrical engineering Addresses the needs of practicing engineers, enabling it to get to the point more directly, and cover more

ground. Covers hardware, software and middleware in a single volume Includes a library of design examples and design tools, plus a complete set of source code and embedded systems design tutorial materials from companion website

**Mathematical Elements for Computer Graphics** - David F. Rogers 1990

This text is ideal for junior-, senior-, and graduate-level courses in computer graphics and computer-aided design taught in departments of mechanical and aeronautical engineering and computer science. It presents in a unified manner an introduction to the mathematical theory underlying computer graphic applications. It covers topics of keen interest to students in engineering and computer science: transformations, projections, 2-D and 3-D curve definition schemes, and surface definitions. It also includes techniques, such as B-splines, which are incorporated as part of the software in advanced engineering workstations. A basic knowledge of vector and matrix algebra and calculus is required.

**Security in Computing and Communications** - Peter Mueller 2016-09-16

This book constitutes the refereed proceedings of the 4th International Symposium on Security in Computing and Communications, SSCC 2016, held in Jaipur, India, in September 2016. The 23 revised full papers presented together with 16 short papers and an invited paper were carefully reviewed and selected from 136 submissions. The papers are organized in topical sections on cryptosystems, algorithms, primitives; security and privacy in networked systems; system and network security; steganography, visual cryptography, image forensics; applications security.

**Intelligent Computing and Networking** - Valentina Emilia Balas 2022-03-24

This book gathers high-quality peer-reviewed research papers presented at the International Conference on Intelligent Computing and Networking (IC-ICN 2021), organized by the Computer Department, Thakur College of Engineering and

Technology, in Mumbai, Maharashtra, India, on February 26–27, 2021. The book includes innovative and novel papers in the areas of intelligent computing, artificial intelligence, machine learning, deep learning, fuzzy logic, natural language processing, human-machine interaction, big data mining, data science and mining, applications of intelligent systems in health care, finance, agriculture and manufacturing, high-performance computing, computer networking, sensor and wireless networks, Internet of Things (IoT), software-defined networks, cryptography, mobile computing, digital forensics, and blockchain technology.

**HTML and CSS** - Jon Duckett 2011-11-08

A full-color introduction to the basics of HTML and CSS! Every day, more and more people want to learn some HTML and CSS. Joining the professional web designers and programmers are new audiences who need to know a little bit of code at work (update a content management system or e-commerce store) and those who want to make their personal blogs more attractive. Many books teaching HTML and CSS are dry and only written for those who want to become programmers, which is why this book takes an entirely new approach. Introduces HTML and CSS in a way that makes them accessible to everyone—hobbyists, students, and professionals—and it's full-color throughout Utilizes information graphics and lifestyle photography to explain the topics in a simple way that is engaging Boasts a unique structure that allows you to progress through the chapters from beginning to end or just dip into topics of particular interest at your leisure This educational book is one that you will enjoy picking up, reading, then referring back to. It will make you wish other technical topics were presented in such a simple, attractive and engaging way! This book is also available as part of a set in hardcover - Web Design with HTML, CSS, JavaScript and jQuery, 9781119038634; and in softcover - Web Design with HTML, CSS, JavaScript and jQuery, 9781118907443. *COMPUTER GRAPHICS (With CD)* - Rajesh K.

Maurya 2011-07-01

Market\_Desc: Mumbai UniversityBE (Sem V), (Course: Computer Graphics with Virtual Reality Systems) B.Sc. (2nd year), (Course: Computer Science)UPTUTCS-501 (Course: Computer Graphics), JNTU3rd year, Sem 1 (Course: Computer Graphics)Anna UniversityCourse Code: CS1354 (Course: Graphics and Multimedia)VTUCourse Code: 06CS65, 06IS665 (Course: Computer Graphics and Visualization) Special Features: · Presents well-organized topics from elementary display systems to the most advanced animation.· Explains the topics with their theoretical, mathematical and programming perspectives.· Discusses topics such as scan conversion, 2D and 3D transformation, viewing and clipping, curve design and surface generation, and color models in great details. · Includes excellent pedagogy:ü 254 neatly-drawn illustrations and figuresü 44 solved examplesü 218 review questionsü 55 MCQsü 20 sample programs in C/C++ (on CD)ü 52 programming exercises (on CD)· Accompanying CD containsü 20 sample programs in C/C++ (on CD)ü 52 programming exercises (on CD)ü List of Abbreviationsü Bibliography About The Book: Computer Graphics is a comprehensive book for undergraduate students of computer science and information technology. The book is also useful to students, professionals and practitioners interested in object design, transformation, visualization, image analysis and modeling of real world. The topics in the book have been supplemented with adequate solved examples. Review questions and MCQs presented at the end of each chapter would help students sharpen their concepts. Topics on animation have been included along with the core graphics topics that are very relevant in modern visualization and animation industry. The companion CD contains Sample Programs in C/C++ to better understand the topic and Programming Exercises for skill assessment. Cyber Security in India - Sandeep Kumar Shukla 2020-03-17 This book of 'directions' focuses on cyber

security research, education and training in India, and work in this domain within the Indian Institute of Technology Kanpur. IIT Kanpur's Computer Science and Engineering Department established an 'Interdisciplinary Center for Cyber Security and Cyber Defense of Critical Infrastructures (C3I Center)' in 2016 with funding from the Science and Engineering Research Board (SERB), and other funding agencies. The work at the center focuses on smart grid security, manufacturing and other industrial control system security; network, web and data security; cryptography, and penetration techniques. The founders are involved with various Indian government agencies including the Reserve Bank of India, National Critical Information Infrastructure Protection Center, UIDAI, CCTNS under home ministry, Ministry of IT and Electronics, and Department of Science & Technology. The center also testifies to the parliamentary standing committee on cyber security, and has been working with the National Cyber Security Coordinator's office in India. Providing glimpses of the work done at IIT Kanpur, and including perspectives from other Indian institutes where work on cyber security is starting to take shape, the book is a valuable resource for researchers and professionals, as well as educationists and policymakers.

The Power of Play in Higher Education - Alison James 2019-01-31

This book examines the increasing popularity of creativity and play in tertiary learning, and how it can be harnessed to enhance the student experience at university. While play is often misunderstood as something 'trivial' and associated with early years education, the editors and contributors argue that play contributes to social and human development and relations at a fundamental level. This volume invalidates the commonly held assumption that play is only for children, drawing together numerous case studies from higher education that demonstrate how researchers, students and managers can benefit from play as a means of liberating thought, overturning obstacles



and discovering fresh approaches to persistent challenges. This diverse and wide-ranging edited collection unites play theory and practice to address the gulf in research on this fascinating topic. It will be of interest and value to educators, students and scholars of play and creativity, as well as practitioners and academic leaders looking to incorporate play into the curriculum.

**SYSTEM PROGRAMMING** - Rajesh Kumar Maurya 2011-05-01

Market\_Desc: Special Features: · Covers Practical Examples About The Book: This book provides information about language processors and also introduces to design and implementation of various types of system software such as assemblers, macros, loaders, and linkers. Along with this, you will also learn about compilers, aspects of compilation, memory allocation, compilation of expression and control structure, code optimization, and interpreters.

**Global Positioning System** - 2006

*Principles of Computer Graphics* - Shalini Govil-Pai 2006-08-02

Helps readers to develop their own professional quality computer graphics. Hands-on examples developed in OpenGL illustrate key concepts.

*Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies* - Vinod Kumar 2020-12-05

Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies has been designed to bind novel knowledge of wastewater pollution-induced impacts on various aspects of our environment. The book also contains novel methods and tools for the monitoring and treatment of produced wastewater.

**Thermophiles and Thermozyemes** - María-Isabel González-Siso 2019-04-23

Interest in the study of life in hot environments, both with respect to the inhabiting microorganisms and the enzymes they produce, is currently very high. The

biological mechanisms responsible for the resistance to high temperatures are not yet fully understood, whereas thermostability is a highly required feature for industrial applications. In this e-book, the invited authors provide diverse evidence contributing to the understanding of such mechanisms and the unlocking of the biotechnological potential of thermophiles and thermozyemes.

**Plant Pathology at a Glance** - R P Singh 2018

In this book, attempts have been made to deliver the core of the subject in a concise, easily assimilated form designed to compete the JRF, SRF, NET and ARS. It may be useful to seek admission in Ph. D. in Plant Pathology through entrance examinations of various institutions and get through screening tests conducted by Public Service Commission of various states for jobs in Plant pathology/Plant Protection. This book covers all the chapters of plant pathology including historical background, molecular plant pathology, breeding for resistance to disease, physiology of diseased plants, root diseases, seed-borne diseases, postharvest diseases of fruits and vegetables, diseases caused by fungi, bacteria, viruses, viroid, virusoid, phytoplasmas, spiroplasmas, protozoa and abiotic stresses etc. It contains objective questions with answers to be asked in various competitive exams. This book is designed to satisfy the needs of students preparing for competitive exams and to understand the fundamental aspects clearly and easily.

**Advances in Cybernetics, Cognition, and Machine Learning for Communication Technologies** - Vinit Kumar Gunjan 2020-04-28

This book highlights recent advances in Cybernetics, Machine Learning and Cognitive Science applied to Communications Engineering and Technologies, and presents high-quality research conducted by experts in this area. It provides a valuable reference guide for students, researchers and industry practitioners who want to keep abreast of the latest developments in this dynamic,

exciting and interesting research field of communication engineering, driven by next-generation IT-enabled techniques. The book will also benefit practitioners whose work involves the development of communication systems using advanced cybernetics, data processing, swarm intelligence and cyber-physical systems; applied mathematicians; and developers of embedded and real-time systems. Moreover, it shares insights into applying concepts from Machine Learning, Cognitive Science, Cybernetics and other areas of artificial intelligence to wireless and mobile systems, control systems and biomedical engineering.

Harmony Search and Nature Inspired Optimization Algorithms - Neha Yadav

2018-08-23

The book covers different aspects of real-world applications of optimization algorithms. It provides insights from the Fourth International Conference on Harmony Search, Soft Computing and Applications held at BML Munjal University, Gurgaon, India on February 7-9, 2018. It consists of research articles on novel and newly proposed optimization algorithms; the theoretical study of nature-inspired optimization algorithms; numerically established results of nature-inspired optimization algorithms; and real-world applications of optimization algorithms and synthetic benchmarking of optimization algorithms.