

Computer Graphics

Rajesh K Maurya

This book presents select peer-reviewed proceedings of the International Conference on Advances in Mechanical Engineering (ICAME 2020). The contents cover latest research in several areas such as advanced energy sources, automation, mechatronics and robotics, automobiles, biomedical engineering, CAD/CAM, CFD, advanced engineering materials, mechanical design, heat and mass transfer, manufacturing and production processes,

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tribology and wear, surface engineering, ergonomics and human factors, artificial intelligence, and supply chain management. The book brings together advancements happening in the different domains of mechanical engineering, and hence, this will be useful for students and researchers working in mechanical engineering.

This book features selected papers presented at the Fourth International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2018). Covering topics such as MEMS and nanoelectronics,

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wireless communications, optical communications, instrumentation, signal processing, the Internet of Things, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications in mines, it offers a valuable resource for young scholars, researchers, and academics alike.

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

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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.

A guide to the concepts and applications of computer graphics covers such topics as interaction techniques, dialogue

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design, and user interface
software.

An Allegory of Quantum Physics
Coherent Light-Matter
Interactions in Monolayer
Transition-Metal
Dichalcogenides
Computer Graphics with An
Introduction to Multimedia, 4th
Edition

Advanced Engineering
Mathematics with MATLAB
Data Structures Using C
!FUSION 360 is available as a free
license for hobby and private users!
Fusion 360 Step by Step, the book for
everyone who wants to learn CAD
design, FEM simulation, animation,

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rendering and manufacturing of parts and assemblies from an engineer (M.Eng.) with ease. And all this, with a FREE (only for private users) professional software and by means of amazing hands-on examples and design projects (e.g. 4-cylinder-engine). This book is the all-in-one for beginners! Are you interested in CAD design, in creating three-dimensional objects for 3D printing or other applications (model making, prototypes, design elements,...)? Are you looking for a practical and compact beginner course for Fusion 360 from Autodesk? Then this Fusion 360 basics book has got you covered! In this comprehensive beginner's course you will learn all the basics you need to use Fusion 360 in detail and step by step. Take a look inside the book right now and get your copy

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of this handy CAD, CAM, & FEM tutorial as an ebook or paperback! Numerous illustrations (more than 200 full-color images) enhance the book's explanations, creating a clear and easy introduction to design, simulation, and manufacturing. Fusion 360 combines and links several engineering disciplines such as CAD ("Computer Aided Design"), CAM ("Computer Aided Manufacturing") and FEM ("Finite Element Method"), summarized: CAE ("Computer Aided Engineering") in one software. With Fusion 360 you can not only design parts, but also perform simulations and animations, as well as create programming for a CNC machine. The main focus of this book is on design with Fusion 360, i.e. the CAD design section of the software. However, the other features

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of Fusion 360 will not be neglected and will of course be covered in detail, so don't worry! This hands-on book covers everything you need to know to design (CAD), animate, render, simulate (FEM) and fabricate (CAM & Technical Drawings) 3D parts on your PC using Fusion 360. You will learn how to use Fusion 360 from Autodesk step by step and from scratch by the knowledge of an engineer. Everything from creating a 2D sketch to using Fusion 360's features to creating a three-dimensional object is included. The software and its features are presented in detail and easy to understand using amazing design projects. The advantages of this book at a glance: Learn step-by-step basic explanations on how to use FUSION 360 with the guidance of an engineer

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(Master of Engineering) and experienced user Learn hands-on and through awesome sample projects Get to know all sections of Fusion 360 (CAD/Design, FEM/Simulation, Rendering, Animation, Manufacturing/CAM, Technical Drawings) Get a simple, straightforward & fast introduction to Fusion 360 Easy to follow explanations, therefore ideal for beginners, novices and intermediates. Learn the essentials in no time! Compact and to the point: Number of pages: approx. 179 pages TAKE A LOOK INSIDE RIGHT NOW! START LEARNING CAD DESIGN, FEM SIMULATION & CAM with FUSION 360! COMPUTER GRAPHICS (With CD) This book includes high-quality, peer-reviewed papers from the International Conference on Recent

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Advancement in Computer, Communication and Computational Sciences (RACCCS-2017), held at Aryabhata College of Engineering & Research Center, Ajmer, India on September 2-3, 2017, presenting the latest developments and technical solutions in computational sciences. Data science, data- and knowledge engineering require networking and communication as a backbone and have a wide scope of implementation in engineering sciences. Keeping this ideology in mind, the book offers insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. Covering a variety of topics, such as intelligent hardware and software design, advanced communications, intelligent computing technologies,

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advanced software engineering, the web and informatics, and intelligent image processing, it helps those in the computer industry and academia use the advances of next-generation communication and computational technology to shape real-world applications.

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

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the expert systems, sustainable clouds, and artificial intelligence technologies.

Recent Trends in Image Processing and Pattern Recognition

Proceedings of ICICC 2021, Volume 3

Proceedings of ICOECA 2021

Select Proceedings of ICAME 2020

Theory and Applications, ICHSA 2018

Expert Clouds and Applications

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

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and virtual reality systems " Matches with the engineering syllabus of Mumbai University Includes 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

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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

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book very helpful.

Helps readers to develop their own professional quality computer graphics.

Hands-on examples developed in OpenGL illustrate key concepts.

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

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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

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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,

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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

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code and embedded systems design tutorial materials from companion website This textbook covers in detail digitally-driven methods for adding materials together to form parts. A conceptual overview of additive manufacturing is given, beginning with the fundamentals so that readers can get up to speed quickly. Well-established and emerging applications such as rapid prototyping, micro-scale manufacturing, medical applications, aerospace manufacturing, rapid

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tooling and direct digital manufacturing are also discussed. This book provides a comprehensive overview of additive manufacturing technologies as well as relevant supporting technologies such as software systems, vacuum casting, investment casting, plating, infiltration and other systems. Reflects recent developments and trends and adheres to the ASTM, SI and other standards; Includes chapters on topics that span the entire AM value chain, including process

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selection, software, post-processing, industrial drivers for AM, and more. ; Provides a broad range of technical questions to ensure comprehensive understanding of the concepts covered.

India Unbound
Intelligent Computing and
Information and
Communication
Drug Discovery for
Leishmaniasis
International Conference
on Innovative Computing
and Communications
A Comprehensive Guide for
Engineers and Programmers
SYSTEM PROGRAMMING

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This book focuses on recent developments in docking simulations for target proteins with chapters on specific techniques or applications for docking simulations, including the major docking programs. Additionally, the volume explores the scoring functions developed for the analysis of docking results and to predict ligand-binding affinity as well as the importance of docking simulations for the initial stages of drug discovery. Written for the highly successful Methods in Molecular Biology series, this collection presents the kind of detail and key implementation advice to ensure successful results. Authoritative and practical, Docking Screens for Drug Discovery aims to serve

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those interested in molecular docking simulation and also in the application of these methodologies for drug discovery. This volume reviews cutting-edge technologies and insights related to XML-based and multimedia information access and data retrieval. And by applying new techniques to real-world scenarios, it details how organizations can gain competitive advantages. 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

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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

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(thinking) and innovation. This second edition of Data Structures Using C has been developed to provide a comprehensive and consistent coverage of both the abstract concepts of data structures as well as the implementation of these concepts using C language. It begins with a thorough overview of the concepts of C programming followed by introduction of different data structures and methods to analyse the complexity of different algorithms. It then connects these concepts and applies them to the study of various data structures such as arrays, strings, linked lists, stacks, queues, trees, heaps, and graphs. The book utilizes a

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systematic approach wherein the design of each of the data structures is followed by algorithms of different operations that can be performed on them, and the analysis of these algorithms in terms of their running times. Each chapter includes a variety of end-chapter exercises in the form of MCQs with answers, review questions, and programming exercises to help readers test their knowledge.

*Principles and Practice
Fusion 360 | Step by Step
Proceedings of ICTSES 2018
RACCCS 2017
Proceedings of ICICC 2021,
Volume 1
Harmony Search Algorithm*

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. The volume presents high quality research papers presented at Second International Conference on Information and Communication Technology for Intelligent Systems (ICICC 2017). The conference was held during 2-4 August 2017,

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Pune, India and organized communally by Dr. Vishwanath Karad MIT World Peace University, Pune, India at MIT College of Engineering, Pune and supported by All India Council for Technical Education (AICTE) and Council of Scientific and Industrial Research (CSIR). The volume contains research papers focused on ICT for intelligent computation, communications and audio, and video data processing.

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.*

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.

*Lingua TOEFL CBT Insider
Embedded Systems*

Architecture

*COMPUTER GRAPHICS (With
CD)*

*Tools, Techniques,
Methods and Rules to*

***Innovate Online
Additive Manufacturing
Technologies
Proceedings of the 1st
International Conference
on Sustainable Waste
Management through
Design***

□□□□□□:(□)Andries van
Dam□(□)Steven K. Feiner□(□)John
F. Hughes□

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)

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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

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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

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applications from the scientific and engineering literature, a highlight of previous editions. Worked solutions are given in the back of the book.

"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."

Market_Desc: Special Features: ·
Covers Practical Examples About

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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.

Emergent Web Intelligence:
Advanced Information Retrieval
Proceeding of NCCS 2018
Computer Graphics
IC_SWMD 2018
Ambient Communications and
Computer Systems
Computer Graphics Using Open GL
(3rd Ed.) -

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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

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used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval.

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.

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Traces India's economic and social transformation into a free-market democracy, sharing the stories of its top players while weaving in the author's own life experiences as a former CEO for Procter & Gamble India. Reprint.

In this cleverly conceived book, physicist Robert Gilmore makes accessible some complex concepts in quantum mechanics by sending Alice to Quantumland—a whole new Wonderland, smaller than an atom, where each attraction demonstrates a different aspect of quantum theory. Alice unusual encounters, enhanced by illustrations by Gilmore himself, make the Uncertainty Principle, wave functions, the Pauli Principle,

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and other elusive concepts easier to grasp.

Alice in Quantumland

Chanakya of Serpents and Kings

Nanoelectronics, Circuits and

Communication Systems

Advances in Mechanical

Engineering

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Principles of Computer Graphics

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

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be performed in computer graphics and multimedia labs.

This book includes high-quality research papers presented at the Fourth International Conference on Innovative Computing and Communication (ICICC 2021), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on February 20–21, 2021.

Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized

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research and the conversion of applied exploration into real-time applications.

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

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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

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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.

This thesis presents optical methods to split the energy levels of electronic valleys in transition-metal dichalcogenides (TMDs) by means of coherent light-matter interactions. The electronic valleys found in monolayer TMDs such as MoS₂, WS₂, and WSe₂ are among the many novel properties exhibited by semiconductors when thinned down to a few atomic layers, and

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have have been proposed as a new way to carry information in next generation devices (so-called valleytronics). These valleys are, however, normally locked in the same energy level, which limits their potential use for applications. The author describes experiments performed with a pump-probe technique using transient absorption spectroscopy on MoS₂ and WS₂. It is demonstrated that hybridizing the electronic valleys with light allows one to optically tune their energy levels in a controllable valley-selective manner. In particular, by using off-resonance circularly polarized light at small detuning, one can tune the

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energy level of one valley through the optical Stark effect. Also presented within are observations, at larger detuning, of a separate contribution from the so-called Bloch--Siegert effect, a delicate phenomenon that has eluded direct observation in solids. The two effects obey opposite selection rules, enabling one to separate the two effects at two different valleys.

Third International Conference,
RTIP2R 2020, Aurangabad, India,
January 3–4, 2020, Revised
Selected Papers, Part II

UGC NET/JRF/SET Computer
Science and Applications (Paper II
& III)

Docking Screens for Drug

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Discovery

CAD Design, FEM Simulation &
CAM for Beginners. The Ultimate
Guide for Autodesk's Fusion 360!
Procedural Elements for Computer
Graphics

Mathematical Elements for
Computer Graphics

This book describes the
latest advances, innovations
and applications in the
field of waste management
and environmental
geomechanics as presented by
leading researchers,
engineers and practitioners
at the International
Conference on Sustainable
Waste Management through
Design (IC_SWMD), held in

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Ludhiana (Punjab), India on November 2-3, 2018. Providing a unique overview of new directions, and opportunities for sustainable and resilient design approaches to protect infrastructure and the environment, it discusses diverse topics related to civil engineering and construction aspects of the resource management cycle, from the minimization of waste, through the eco-friendly re-use and processing of waste materials, the management and disposal of residual wastes, to water treatments and technologies. It also encompasses strategies for

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reducing construction waste through better design, improved recovery, re-use, more efficient resource management and the performance of materials recovered from wastes. The contributions were selected by means of a rigorous peer-review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different waste management specialists.

This text is ideal for junior-, senior-, and graduate-level courses in computer graphics and computer-aided design taught

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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

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calculus is required.

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Characteristics of the Earth-
ionosphere Waveguide for VLF
Radio Waves

Proceedings of 2nd
International Conference,
ICICC 2017

Online Innovation

Theory and Practice Using
OpenGL and Maya®

Global Positioning System