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"Seventy-two distinguished historians of science took part in this stimulating and serious exchange of ideas covering many aspects of ancient, medieval and modern scientific thought ... the published proceedings include sixteen well-documented papers and nineteen provocative commentaries"--The New Scholasticism.

The wide availability of digital educational

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resources for mathematics teaching and learning is indisputable, with some notable genres of technologies having evolved, such as graphing calculators, dynamic graphing, dynamic geometry and data visualization tools. But what does this mean for teachers of mathematics, and how do their roles evolve within this digital landscape? This essential book offers an international perspective to help bridge theory and practice, including coverage of networking theories, curriculum design, task implementation, online resources and

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assessment. Mathematics Education in the Digital Age details the impacts this digital age has, and will continue to have, on the parallel aspects of learning and teaching mathematics within formal education systems and settings. Written by a group of international authors, the chapters address the following themes:

- Mathematics teacher education and professional development
- Mathematics curriculum development and task design
- The assessment of mathematics
- Theoretical perspectives and methodologies/approaches for researching

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mathematics education in the digital age This book highlights not only the complex nature of the field, but also the advancements in theoretical and practical knowledge that is enabling the mathematics education community to continue to learn in this increasingly digital age. It is an essential read for all mathematics teacher educators and master teachers.

Revised edition of: FPGA-based implementation of signal processing systems / Roger Woods ... [et al.]. 2008.

Brainiacs on the prowl for challenging fun will

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find everything they're looking for in these cunning conundrums. Puzzle master Terry Stickels has created a mind-melting collection filled with hundreds of diverse and fiendishly tricky problems--including wordplay, math, analytic reasoning, logic, visual dilemmas, and code breaking. Figure out the next number in a series, find hidden phrases, and determine what a three-dimensional object would look like from two-dimensional drawings. Every puzzle provides a workout that strengthens mental muscles. And while these brainteasers do

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require concentration, they don't demand any special training or high-level math skills. A little practice, patience, and imagination are all it takes.

Computer Graphics Through OpenGL®

Mathematical Problem Solving

1001 Math Problems

A Study of Functions and Their Applications

Get Your Share

Toyota Talent

From Structure to Function

Assessment for learning is a powerful way to raise

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standards and improve learning. However, as this book shows, effective assessment for learning in the mathematics classroom depends on pupils being able and willing to use mathematical language to express their ideas. When discussion, negotiation and explanation are encouraged, teachers use assessment for learning creatively, the work quickly becomes more challenging and the pupils come to see themselves as successful learners. Many pupils find it difficult to express ideas in mathematics because of problems with the language that is used to convey mathematical concepts. This book shows teachers how to help pupils express what they really know and understand, so that assessment for learning can be used. The book:

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Discusses what mathematical language is, and what it is not Suggests practical approaches to introducing more discourse into the classroom Explores the ideas of assessment for learning – rich questioning and dialogue, effective feedback, and peer and self assessment – and suggests how these can be used effectively in mathematics classrooms to improve learning Language for Learning Mathematics is key reading for teachers and trainee teachers in mathematics, as well as assessment advisors at LAs.

This book presents a historical overview of number theory. It examines texts that span some thirty-six centuries of arithmetical work, from an Old Babylonian tablet to Legendre's Essai sur la Théorie des Nombres,

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written in 1798. Coverage employs a historical approach in the analysis of problems and evolving methods of number theory and their significance within mathematics. The book also takes the reader into the workshops of four major authors of modern number theory: Fermat, Euler, Lagrange and Legendre and presents a detailed and critical examination of their work.

YEAR 12 This second edition of Physics 2: HSC Course 2E is revised and updated to meet all the requirements of the amended Stage 6 Physics syllabus for Year 12 students in New South Wales. Written by a team of experienced Physics teachers, Physics 2: HSC Course 2E offers a complete resource, with coverage of the three core modules as well as three option modules: Quanta to

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Quarks, Astrophysics and, new for this edition, Medical Physics. Features full-colour format, with high quality illustrations to enhance students' understanding of Physics concepts clearly written explanations and sample problems key terms highlighted and defined in the context of the chapters and in a complete glossary interest boxes focusing on up-to-date information, current research, issues, developments and discoveries practical activities at the end of each chapter to support the syllabus investigations chapter reviews that provide a summary and a range of problem-solving and descriptive questions. Physics 2: HSC Course 2E is further supported by the Physics NSW CD-ROM (ISBN: 0731400550) which offers a Year 12 HSC Option Module,

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The Age of Silicon , with complete answers and worked solutions. Click [HERE](#) to download a FREE copy of The Age of Silicon .

Foundations for Designing User-Centered Systems introduces the fundamental human capabilities and characteristics that influence how people use interactive technologies. Organized into four main areas—anthropometrics, behaviour, cognition and social factors—it covers basic research and considers the practical implications of that research on system design. Applying what you learn from this book will help you to design interactive systems that are more usable, more useful and more effective. The authors have deliberately developed Foundations for Designing User-Centered

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Systems to appeal to system designers and developers, as well as to students who are taking courses in system design and HCI. The book reflects the authors' backgrounds in computer science, cognitive science, psychology and human factors. The material in the book is based on their collective experience which adds up to almost 90 years of working in academia and both with, and within, industry; covering domains that include aviation, consumer Internet, defense, eCommerce, enterprise system design, health care, and industrial process control.

Mood Mapping

Standardized

Renewable Energy in Power Systems

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Game Engine Black Book

Analog Seekrets

Springer Handbook of Mechanical Engineering

***A Dictionary of Construction, Surveying, and Civil
Engineering***

When Mr. Carter mistakes the lovable, literal-minded Amelia Bedelia for the new teacher, class will never be the same again!

"A selection of 45 key assessments from the "CIBS II Reading/ELA" and "CIBS II Mathematics"...[I]ncludes readiness, reading/ELA, and mathematics assessments

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and grade-placement tests that have been validated on students 5 to 13 years of age"--Intro.

Examinations of wargaming for entertainment, education, and military planning, in terms of design, critical analysis, and historical contexts. Games with military themes date back to antiquity, and yet they are curiously neglected in much of the academic and trade literature on games and game history. This volume fills that gap, providing a diverse set of perspectives on wargaming's past, present,

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and future. In Zones of Control, contributors consider wargames played for entertainment, education, and military planning, in terms of design, critical analysis, and historical contexts. They consider both digital and especially tabletop games, most of which cover specific historical conflicts or are grounded in recognizable real-world geopolitics. Game designers and players will find the historical and critical contexts often missing from design and hobby literature; military analysts will find connections to game

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design and the humanities; and academics will find documentation and critique of a sophisticated body of cultural work in which the complexity of military conflict is represented in ludic systems and procedures. Each section begins with a long anchoring chapter by an established authority, which is followed by a variety of shorter pieces both analytic and anecdotal. Topics include the history of playing at war; operations research and systems design; wargaming and military history; wargaming's ethics and politics;

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gaming irregular and non-kinetic warfare; and wargames as artistic practice. Contributors Jeremy Antley, Richard Barbrook, Elizabeth M. Bartels, Ed Beach, Larry Bond, Larry Brom, Lee Brimmicombe-Wood, Rex Brynen, Matthew B. Caffrey, Jr., Luke Caldwell, Catherine Cavagnaro, Robert M. Citino, Laurent Closier, Stephen V. Cole, Brian Conley, Greg Costikyan, Patrick Crogan, John Curry, James F. Dunnigan, Robert J. Elder, Lisa Faden, Mary Flanagan, John A. Foley, Alexander R. Galloway, Sharon Ghamari-Tabrizi, Don R.

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Gilman, A. Scott Glancy, Troy Goodfellow, Jack Greene, Mark Herman, Kacper Kwiatkowski, Tim Lenoir, David Levinthal, Alexander H. Levis, Henry Lowood, Elizabeth Losh, Esther MacCallum-Stewart, Rob MacDougall, Mark Mahaffey, Bill McDonald, Brien J. Miller, Joseph Miranda, Soraya Murray, Tetsuya Nakamura, Michael Peck, Peter P. Perla, Jon Peterson, John Prados, Ted S. Raicer, Volko Ruhnke, Philip Sabin, Thomas C. Schelling, Marcus Schulzke, Miguel Sicart, Rachel Simmons, Ian Sturrock, Jenny Thompson, John Tiller, J. R.

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Tracy, Brian Train, Russell Vane, Charles Vasey, Andrew Wackerfuss, James Wallis, James Wallman, Yuna Huh Wong

Linear Algebra Problem Book can be either the main course or the dessert for someone who needs linear algebra and today that means every user of mathematics. It can be used as the basis of either an official course or a program of private study. If used as a course, the book can stand by itself, or if so desired, it can be stirred in with a standard linear algebra course as the seasoning that provides

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the interest, the challenge, and the motivation that is needed by experienced scholars as much as by beginning students. The best way to learn is to do, and the purpose of this book is to get the reader to DO linear algebra. The approach is Socratic: first ask a question, then give a hint (if necessary), then, finally, for security and completeness, provide the detailed answer.

The Development of Armoured Forces, Their
Tactics and Operational Potential
An Atlas of Functions

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Comparative International Issues in
Curriculum and Pedagogy
with Equator, the Atlas Function Calculator
Introduction to Electronics
Zones of Control

***This new edition of A Dictionary of
Construction, Surveying, and Civil
Engineering is the most up-to-date dictionary
of its kind. In more than 8,000 entries it
covers the key areas of civil and
construction engineering, construction
technology and practice, construction***

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management techniques and processes, as well as legal aspects such as contracts and procurement. It has been updated with more than 600 new entries spanning subjects such as sustainability, new technologies, disaster management, and building software. New additions include terms such as Air source heat pump, hydraulic failure, mechanical ventilation with heat recovery, off-site construction, predictive performance, sustainable development, and value engineering. Useful diagrams and web links complement the text, which also includes suggestions for further reading. With

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contributions from more than 130 experts from around the world, this dictionary is an authoritative resource for engineering students, construction professionals, and surveyors.

This textbook has been written by a practicing professional electronics design engineer for the following specific groups:

1. Final year students in electronic engineering and related subjects. 2. Final year physics students taking an electronics option. 3. Junior design engineers who seek rapid career progression. 4. Mature digital designers who seek a broader skill set, to

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include real-world interfaces, measurements and other analog skills.

This book, written and edited by members of the International Game Developers Association (IGDA) Game Writing Special Interest Group, follows the acclaimed Professional Techniques for Video Game Writing to deliver practical advice from seasoned veterans on the special challenges of writing for first-person shooter games (FPS), role-playing games (R

This International Handbook of Cultures of Teacher Education is one of the books in the Analytrics 'Cultures of Education' series. The series editor is Guy Tchibozo, Professor

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of Education at The University of Limoges, France. This volume is edited by Beatrice Boufoy-Bastick an International University Exchange Coordinator, Senior Lecturer in French and TESOL and researcher in the field of Culturometrics at the University of the West Indies in Trinidad. This handbook looks at case examples of current issues occurring across the globe in the field of Teacher Education through the new cultural perspectives of Culturometrics. Over one-hundred widely experienced Educationalists have contributed their specific areas of expertise to this volume. The volume presents

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comparative international examples of issues in two major areas of Teacher Education vis in Curriculum and in Pedagogy. It shows how this innovative cultural perspective sheds new light on common problems in Teacher Education and suggests alternative 'relational' explanations that can lead to innovative solutions. The chapters illustrate, in different ways, how their particular educational enterprise is successful to the extent that it has a shared meaning for the stakeholders through which the behaviours of the stakeholders communicate mutual values, attitudes and

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*purposes in negotiations of cultural
identities.*

*Foundations for Designing User-Centered
Systems*

*FPGA-based Implementation of Signal
Processing Systems*

GPU Zen 2

Fundamentals of Signals and Systems

Achtung-Panzer!

HSC Course

The Big Book of Mind-Bending Puzzles

This resource covers all areas of
interest for the practicing engineer as

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well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

How was Wolfenstein 3D made and what were the secrets of its speed? How did

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id Software manage to turn a machine designed to display static images for word processing and spreadsheet applications into the best gaming platform in the world, capable of running games at seventy frames per seconds? If you have ever asked yourself these questions, Game Engine Black Book is for you. This is an engineering book. You will not find much prose in here (the author's English is broken anyway.) Instead,

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this book has only bit of text and plenty of drawings attempting to describe in great detail the Wolfenstein 3D game engine and its hardware, the IBM PC with an Intel 386 CPU and a VGA graphic card. Game Engine Black Book details techniques such as raycasting, compiled scalars, deferred rendition, VGA Mode-Y, linear feedback shift register, fixed point arithmetic, pulse width modulation, runtime generated code, self-modifying code,

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and many others tricks. Open up to discover the architecture of the software which pioneered the First Person Shooter genre.

Obtain the fundamental background in electronics needed to succeed in today's increasingly digital world! The fifth edition continues to expose readers to the broad field of electronics at a level that can be easily understood, with all-new information on circuit board

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fabrication, assembly, and repair as well as practical applications and troubleshooting. Color has been added to all drawings and photos that supplement the descriptions of important concepts and techniques, making it even easier to master basic theory. Coverage is divided into six sections - DC Circuits, AC Circuits, Semiconductor Devices, Linear Circuits, Digital Circuits, and now, Practical Applications - a new section providing

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hands-on opportunities to apply DC/AC principles.

COMPREHENSIVE COVERAGE OF SHADERS AND THE PROGRAMMABLE PIPELINE From geometric primitives to animation to 3D modeling to lighting, shading and texturing, Computer Graphics Through OpenGL®: From Theory to Experiments is a comprehensive introduction to computer graphics which uses an active learning style to teach key concepts. Equally emphasizing theory and

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practice, the book provides an understanding not only of the principles of 3D computer graphics, but also the use of the OpenGL® Application Programming Interface (API) to code 3D scenes and animation, including games and movies. The undergraduate core of the book takes the student from zero knowledge of computer graphics to a mastery of the fundamental concepts with the ability to code applications using fourth-generation OpenGL®. The

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remaining chapters explore more advanced topics, including the structure of curves and surfaces, applications of projective spaces and transformations and the implementation of graphics pipelines. This book can be used for introductory undergraduate computer graphics courses over one to two semesters. The careful exposition style attempting to explain each concept in the simplest terms possible should appeal to the self-study student

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as well. Features • Covers the foundations of 3D computer graphics, including animation, visual techniques and 3D modeling • Comprehensive coverage of OpenGL® 4.x, including the GLSL and vertex, fragment, tessellation and geometry shaders • Includes 180 programs with 270 experiments based on them • Contains 750 exercises, 110 worked examples, and 700 four-color illustrations • Requires no previous knowledge of computer graphics •

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Balances theory with programming
practice using a hands-on interactive
approach to explain the underlying
concepts

Fundamentals and Practices

Machine Intelligence in Design

Automation

Strait Crossings 2001

Exercises on mensuration

Handbook of Mathematical Functions

Perspectives on Wargaming

A Field Manual for Railroad Engineers

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Financial planner and broker Julie Stav has been helping women get rich for years. Now she offers her hands-on techniques and inspiring advice in a book that simplifies the stock market and puts a new world of wealth within reach. And with updated information—including current examples, the hottest new websites, and more—this smart, sensible, and down-to-earth book is the ideal guide for women who want to invest in their dreams. This book presents a hands-on approach for solving electronic design automation problems with modern machine intelligence techniques by including step-by-step development of commercial grade design applications including resistance estimation, capacitance estimation, cell classification and others using dataset

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extracted from designs at 20nm. It walks the reader step by step in building solution flow for EDA problems with Python and Tensorflow. Intended audience includes design automation engineers, managers, executives, research professionals, graduate students, Machine learning enthusiasts, EDA and CAD developers, mentors, and the merely inquisitive. It is organized to serve as a compendium to a beginner, a ready reference to intermediate and source for an expert.

This volume contains the proceedings of the Fourth Symposium on Strait Crossings, and deals with technology for bridges, sub-sea tunnels, submerged floating tunnels, floating bridges and ferries. It covers planning, construction and maintenance, as well as

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technical solutions.

Mood mapping simply involves plotting how you feel against your energy levels, to determine your current mood. Dr Liz Miller then gives you the tools you need to lift your low mood, so improving your mental health and wellbeing. Dr Miller developed this technique as a result of her own diagnosis of bipolar disorder (manic depression), and of overcoming it, leading her to seek ways to improve the mental health of others. This innovative book illustrates: * The Five Keys to Moods: learn to identify the physical or emotional factors that affect your moods * The Miller Mood Map: learn to visually map your mood to increase self-awareness * Practical ways to implement change to alleviate low

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mood Mood mapping is an essential life skill; by giving an innovative perspective to your life, it enables you to be happier, calmer and to bring positivity to your own life and to those around you. 'A gloriously accessible read from a truly unique voice' Mary O'Hara, Guardian 'It's great to have such accessible and positive advice about our moods, which, after all, govern everything we do. I love the idea of MoodMapping' Dr Phil Hammond 'Can help you find calm and take the edge off your anxieties' Evening Standard 'MoodMapping is a fantastic tool for managing your mental health and taking control of your life' Jonathan Naess, Founder of Stand to Reason Mathematics Education in the Digital Age Brownstock Washing

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***With Formulas, Graphs, and Mathematical Tables
Physics 2***

Critical Problems in the History of Science

The Computing Dendrite

What System Designers Need to Know about People

An up to date account of renewable sources of electricity generation and their integration into power systems With the growth in installed capacity of renewable energy (RE) generation, many countries such as the UK are relying on higher levels of RE generation to meet targets for reduced greenhouse gas emissions. In the face of this, the integration issue is now of increasing concern, in particular to system operators. This updated text

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describes the individual renewable technologies and their power generation characteristics alongside an expanded introduction to power systems and the challenges posed by high levels of penetrations from such technologies, together with an account of technologies and changes to system operation that can ease RE integration. Features of this edition: Covers power conditioning, the characteristics of RE generators, with emphasis on their time varying nature, and the use of power electronics in interfacing RE sources to grids Outlines up to date RE integration issues such as power flow in networks supplied from a combination of conventional and renewable energy sources Updated

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coverage of the economics of power generation and the role of markets in delivering investment in sustainable solutions Considers the challenge of maintaining power balance in a system with increasing RE input, including recent moves toward power system frequency support from RE sources Offers an insightful perspective on the shape of future power systems including offshore networks and demand side management Includes worked examples that enhance this edition's suitability as a textbook for introductory courses in RE systems technology Firmly established as an essential reference, the Second Edition of Renewable Energy in Power Systems will prove a real asset to engineers and others

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involved in both the traditional power and fast growing renewables sector. This text should also be of particular benefit to students of electrical power engineering and will additionally appeal to non-specialists through the inclusion of background material covering the basics of electricity generation.

This book comprehensively covers several hundred functions or function families. In chapters that progress by degree of complexity, it starts with simple, integer-valued functions then moves on to polynomials, Bessel, hypergeometric and hundreds more.

This book is a self-contained introduction to the theory of signals and systems, which lies at the basis of many

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areas of electrical and computer engineering. In the seventy short lectures, which are formatted to facilitate self-learning and to provide easy reference, the book covers such topics as linear time-invariant (LTI) systems, the Fourier transform, the Laplace Transform and its application to LTI differential systems, state-space systems, the z-transform, signal analysis using MATLAB, and the application of transform techniques to communication systems. A wide array of technologies, including feedback control, analog and discrete-time filters, modulation, and sampling systems are discussed in connection with their basis in signals and systems theory. The accompanying CD-ROM includes applets,

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source code, sample examinations, and exercises with selected solutions.

"Free access to instantly scored online practice!"--Cover.

Plot your way to emotional health and happiness

From Theory to Experiments

Advanced Rendering Techniques

An approach through history From Hammurapi to

Legendre

Linear Algebra Problem Book

Teach Us, Amelia Bedelia

The International Handbook of Cultures of Teacher

Education

This is one of the most significant military books of the

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twentieth century. By an outstanding soldier of independent mind, it pushed forward the evolution of land warfare and was directly responsible for German armoured supremacy in the early years of the Second World War. Published in 1937, the result of 15 years of careful study since his days on the German General Staff in the First World War, Guderian's book argued, quite clearly, how vital the proper use of tanks and supporting armoured vehicles would be in the conduct of a future war. When that war came, just two years later, he proved it, leading his Panzers with distinction in the Polish, French and Russian campaigns. Panzer warfare had come of age, exactly as he had forecast.

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This first English translation of Heinz Guderian's classic book - used as a textbook by Panzer officers in the war - has an introduction and extensive background notes by the modern English historian Paul Harris.

An extensive summary of mathematical functions that occur in physical and engineering problems

Fundamentals of pulping, bleaching and papermaking principles with a focus on the practical understanding of brownstock washer operations with a solid fundamental understanding of the basic principles of washing.

Exploring recent developments in the rapidly evolving field of game real-time rendering, GPU Zen assembles a high-quality collection of cutting-edge contributions for

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programming the GPU. Rendering (Patrick Cozzi)1. Adaptive GPU Tessellation with Compute Shaders by Jad Khoury, Jonathan Dupuy, and Christophe Riccio2. Applying Vectorized Visibility on All frequency Direct Illumination by Ho Chun Leung, Tze Yui Ho, Zhenni Wang, Chi Sing Leung, Eric Wing Ming Wong3. Non-periodic Tiling of Noise-based Procedural Textures by Aleksandr Kirillov4. Rendering Surgery Simulation with Vulkan by Nicholas Milef, Di Qi, and Suvranu De5. Skinned Decals by Hawar DoghramachiEnvironmental Effects (Wolfgang Engel)1. Real-Time Fluid Simulation in Shadow of the Tomb Raider by Peter Sikachev, Martin Palko and Alexandre Chekroun2. Real-time Snow

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Deformation in Horizon Zero Dawn: The Frozen Wilds by Kevin Örtengren
Shadows (Maurizio Vives)¹. Soft Shadow Approximation for Dappled Light Sources by Mariano Merchante². Parallax-Corrected Cached Shadow Maps by Pavlo Turchyn
3D Engine Design (Wessam Bahnassi)¹. Real-Time Layered Materials Compositing Using Spatial Clustering Encoding by Sergey Makeev². Procedural Stochastic Textures by Tiling and Blending by Thomas Deliot and Eric Heitz³. A Ray Casting Technique for Baked Texture Generation by Alain Galvan and Je Russell⁴. Writing an efficient Vulkan renderer by Arseny Kapoulkine⁵. glTF - Runtime 3D Asset Delivery by Marco Hutter
Ray Tracing (Anton

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Kaplanyan)1. Real-Time Ray-Traced One-Bounce
Caustics by Holger Gruen2. Adaptive Anti-Aliasing using
Conservative Rasterization and GPU Ray Tracing by
Rahul Sathe, Holger Gruen, Adam Marrs, Josef Spjut,
Morgan McGuire, Yury Uralsky

Number Theory

A Manual of Mathematics

Learning, Practice and Theory

EBOOK: Language for Learning Mathematics:

Assessment for Learning in Practice

Brigrance Comprehensive Inventory of Basic Skills II

Wolfenstein 3D

From FPS to RPG

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Toyota doesn't just produce cars; it produces talented people. In the international bestseller, *The Toyota Way*, Jeffrey Liker explained Toyota's remarkable success through a 4P model for excellence-Philosophy, People, Problem Solving, and Process. Liker, with coauthor David Meier, provided deeper insight into the practical application of the principles in *The Toyota Way Fieldbook*. Now, these authorities on Toyota reveal how you can develop talented people and achieve incredible results in your company. *Toyota Talent* walks you through the rigorous methodology used by this global powerhouse to grow high-performing individuals from within. Beginning with a review of Toyota's landmark

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approach to developing people, the authors illustrate the critical importance of creating a learning and teaching culture in your organization. They provide specific examples necessary to train employees in all areas-from the shop floor to engineering to staff members in service organizations-and show you how to support and encourage every individual to reach his or her top potential. Toyota Talent provides you with the inside knowledge you need to Identify your development needs and create a training plan Understand the various types of work and how to break complicated jobs into teachable skills Set behavioral expectations by properly preparing your workplace Recognize and develop

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potential trainers within your workforce Effectively educate nonmanufacturing employees and members of the staff Develop internal Lean Manufacturing experts Guiding you with expert tips and training aids, as well as real-world examples drawn from the authors' two decades of research and field work, Liker and Meier show you how to get the most out of people who live and breathe your company's philosophy-and who work together toward a common goal.

PRECALCULUS: A STUDY OF FUNCTIONS AND THEIR APPLICATIONS is an innovative precalculus text that incorporates multiple representations of functions, real world applications, the use of technology in the form

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of graphing calculators, and projects. Written in a conversational tone, it incorporates reading questions throughout the text to guide the students in their reading. Linear, exponential, logarithmic, periodic, and power functions are introduced early in the text allowing the rest of the text to be organized around mathematical concepts rather than types of functions. Drawing on their experience working on their National Science Foundation grant-funded PROJECTS FOR PRECALCULUS the authors incorporated input from many instructors who piloted the materials to create PRECALCULUS: A STUDY OF FUNCTIONS AND THEIR APPLICATIONS. Neuronal dendritic trees are complex structures that

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endow the cell with powerful computing capabilities and allow for high neural interconnectivity. Studying the function of dendritic structures has a long tradition in theoretical neuroscience, starting with the pioneering work by Wilfrid Rall in the 1950s. Recent advances in experimental techniques allow us to study dendrites with a new perspective and in greater detail. The goal of this volume is to provide a résumé of the state-of-the-art in experimental, computational, and mathematical investigations into the functions of dendrites in a variety of neural systems. The book first looks at morphological properties of dendrites and summarizes the approaches to measure dendrite morphology quantitatively and to

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actually generate synthetic dendrite morphologies in computer models. This morphological characterization ranges from the study of fractal principles to describe dendrite topologies, to the consequences of optimization principles for dendrite shape. Individual approaches are collected to study the aspects of dendrite shape that relate directly to underlying circuit constraints and computation. The second main theme focuses on how dendrites contribute to the computations that neurons perform. What role do dendritic morphology and the distributions of synapses and membrane properties over the dendritic tree have in determining the output of a neuron in response to its input? A wide range of studies

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is brought together, with topics ranging from general to system-specific phenomena—some having a strong experimental component, and others being fully theoretical. The studies come from many different neural systems and animal species ranging from invertebrates to mammals. With this broad focus, an overview is given of the diversity of mechanisms that dendrites can employ to shape neural computations.

Automated Lighting: The Art and Science of Moving Light in Theatre, Live Performance and Entertainment continues to be the most trusted text for working and aspiring lighting professionals. Now in its second edition, it has been fully updated to include new advances in

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lamp sources such as LEDs and plasma lamps, automated and programmable displays, updates for managing color, and new methods for using electronics. Its clear, easy-to-understand language also includes enough detailed information for the most experienced technician and engineer.

DC to Daylight: A Master Class in Electronics Design
Precalculus

Writing for Video Game Genres

Developing Your People the Toyota Way

Automated Lighting

The Art and Science of Moving Light in Theatre, Live
Performance and Entertainment

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**EBOOK: Language for Learning Mathematics: Assessment for
Learning in Practice** McGraw-Hill Education (UK)