

Pi Unleashed

In the 4,000-year history of research into Pi, results have never been as prolific as present. This book describes, in easy-to-understand language, the latest and most fascinating findings of mathematicians and computer scientists in the field of Pi. Attention is focused on new methods of high-speed computation.

The year's finest mathematics writing from around the world This annual anthology brings together the year's finest mathematics writing from around the world. Featuring promising new voices alongside some of the foremost names in the field, *The Best Writing on Mathematics 2016* makes available to a wide audience many articles not easily found anywhere else—and you don't need to be a mathematician to enjoy them. These writings offer surprising insights into the nature, meaning, and practice of mathematics today. They delve into the history, philosophy, teaching, and everyday occurrences of math, and take readers behind the scenes of today's hottest mathematical debates. Here Burkard Polster shows how to invent your own variants of the Spot It! card game, Steven Strogatz presents young Albert Einstein's proof of the Pythagorean Theorem, Joseph Dauben and Marjorie Senechal find a treasure trove of math in New York's Metropolitan Museum of Art, and Andrew Gelman explains why

much scientific research based on statistical testing is spurious. In other essays, Brian Greene discusses the evolving assumptions of the physicists who developed the mathematical underpinnings of string theory, Jorge Almeida examines the misperceptions of people who attempt to predict lottery results, and Ian Stewart offers advice to authors who aspire to write successful math books for general readers. And there's much, much more. In addition to presenting the year's most memorable writings on mathematics, this must-have anthology includes a bibliography of other notable writings and an introduction by the editor, Mircea Pitici. This book belongs on the shelf of anyone interested in where math has taken us—and where it is headed.

Informative, entertaining and upbeat, this book continues Grazier and Cass's exploration of how technology, science, and scientists are portrayed in Hollywood productions. Both big and small-screen productions are featured and their science content illuminated—first by the authors and subsequently by a range of experts from science and the film world. Starring roles in this volume are played by, among other things, computers (human and mechanical), artificial intelligences, robots, and spacecraft. Interviews with writers, producers, and directors of acclaimed science-themed films stand side by side with the perspectives of scientists, science fiction authors, and science advisors. The

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result is a stimulating and informative reading experience for the layperson and professional scientist or engineer alike. The book begins with a foreword by Zack Stentz, who co-wrote X-Men: First Class and Thor, and is currently a writer/producer on CW 's The Flash.

Learn the art of building a low-cost, portable hacking arsenal using Raspberry Pi 3 and Kali Linux 2 About This Book Quickly turn your Raspberry Pi 3 into a low-cost hacking tool using Kali Linux 2 Protect your confidential data by deftly preventing various network security attacks Use Raspberry Pi 3 as honeypots to warn you that hackers are on your wire Who This Book Is For If you are a computer enthusiast who wants to learn advanced hacking techniques using the Raspberry Pi 3 as your pentesting toolbox, then this book is for you. Prior knowledge of networking and Linux would be an advantage. What You Will Learn Install and tune Kali Linux 2 on a Raspberry Pi 3 for hacking Learn how to store and offload pentest data from the Raspberry Pi 3 Plan and perform man-in-the-middle attacks and bypass advanced encryption techniques Compromise systems using various exploits and tools using Kali Linux 2 Bypass security defenses and remove data off a target network Develop a command and control system to manage remotely placed Raspberry Pis Turn a Raspberry Pi 3 into a honeypot to capture sensitive information In Detail This book will show you how

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to utilize the latest credit card sized Raspberry Pi 3 and create a portable, low-cost hacking tool using Kali Linux 2. You'll begin by installing and tuning Kali Linux 2 on Raspberry Pi 3 and then get started with penetration testing. You will be exposed to various network security scenarios such as wireless security, scanning network packets in order to detect any issues in the network, and capturing sensitive data. You will also learn how to plan and perform various attacks such as man-in-the-middle, password cracking, bypassing SSL encryption, compromising systems using various toolkits, and many more. Finally, you'll see how to bypass security defenses and avoid detection, turn your Pi 3 into a honeypot, and develop a command and control system to manage a remotely-placed Raspberry Pi 3. By the end of this book you will be able to turn Raspberry Pi 3 into a hacking arsenal to leverage the most popular open source toolkit, Kali Linux 2.0. Style and approach This concise and fast-paced guide will ensure you get hands-on with penetration testing right from the start. You will quickly install the powerful Kali Linux 2 on your Raspberry Pi 3 and then learn how to use and conduct fundamental penetration techniques and attacks.

Lively prose and imaginative exercises draw the reader into this unique introductory real analysis textbook. Motivating the fundamental ideas and

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theorems that underpin real analysis with historical remarks and well-chosen quotes, the author shares his enthusiasm for the subject throughout. A student reading this book is invited not only to acquire proficiency in the fundamentals of analysis, but to develop an appreciation for abstraction and the language of its expression. In studying this book, students will encounter: the interconnections between set theory and mathematical statements and proofs; the fundamental axioms of the natural, integer, and real numbers; rigorous \mathbb{N} and \mathbb{Z} definitions; convergence and properties of an infinite series, product, or continued fraction; series, product, and continued fraction formulæ for the various elementary functions and constants. Instructors will appreciate this engaging perspective, showcasing the beauty of these fundamental results. This book presents focused explanations of the core features and complexities of JavaScript, including how to: Utilize the document object model ; Add visual effects to your Web page ; Implement JavaScript on the sever side ; Understand the JavaScript language objects, properties, and methods ; Use JavaScript to create dynamic HTML.

This book provides algorithms and ideas for computationalists. Subjects treated include low-level algorithms, bit wizardry, combinatorial generation, fast transforms like the Fourier transform, and fast arithmetic for both real numbers

and finite fields. Various optimization techniques are described and the actual performance of many given implementations is examined. The focus is on material that does not usually appear in textbooks on algorithms. The implementations are done in C++ and the GP language, written for POSIX-compliant platforms such as the Linux and BSD operating systems. This book contains a compendium of 25 papers published since the 1970s dealing with pi and associated topics of mathematics and computer science. The collection begins with a Foreword by Bruce Berndt. Each contribution is preceded by a brief summary of its content as well as a short key word list indicating how the content relates to others in the collection. The volume includes articles on actual computations of pi, articles on mathematical questions related to pi (e.g., “ Is pi normal? ”), articles presenting new and often amazing techniques for computing digits of pi (e.g., the “ BBP ” algorithm for pi, which permits one to compute an arbitrary binary digit of pi without needing to compute any of the digits that came before), papers presenting important fundamental mathematical results relating to pi, and papers presenting new, high-tech techniques for analyzing pi (i.e., new graphical techniques that permit one to visually see if pi and other numbers are “ normal ”). This volume is a companion to Pi: A Source Book whose third

edition released in 2004. The present collection begins with 2 papers from 1976, published by Eugene Salamin and Richard Brent, which describe “quadratically convergent” algorithms for pi and other basic mathematical functions, derived from some mathematical work of Gauss. Bailey and Borwein hold that these two papers constitute the beginning of the modern era of computational mathematics. This time period (1970s) also corresponds with the introduction of high-performance computer systems (supercomputers), which since that time have increased relentlessly in power, by approximately a factor of 100,000,000, advancing roughly at the same rate as Moore’s Law of semiconductor technology. This book may be of interest to a wide range of mathematical readers; some articles cover more advanced research questions suitable for active researchers in the field, but several are highly accessible to undergraduate mathematics students.

[Hollyweird Science: The Next Generation](#)

[Introduction to Analysis in One Variable](#)

[Amazing and Aesthetic Aspects of Analysis](#)

[AMS Special Session on Experimental Mathematics, January 5, 2009,](#)

[Washington](#)

[Gems in Experimental Mathematics](#)

[Mathematical Journeys](#)

[The Mathematical-Function Computation Handbook](#)

[Han Dynasty](#)

[JavaScript Unleashed](#)

[Design, Analysis, and Computer Implementation of Algorithms](#)

[ICDEA 23, Timișoara, Romania, July 24-28, 2017](#)

[Theta functions, elliptic functions and](#)

This book presents several results on elliptic functions and Pi, using Jacobi's triple product identity as a tool to show surprising connections between different topics within number theory such as theta functions, Eisenstein series, the Dedekind delta function, and Ramanujan's work on Pi. The included exercises make it ideal for both classroom use and self-study.

This book honors the career of historian of mathematics J.L. Berggren, his scholarship, and service to the broader community. The first part, of value to scholars, graduate students, and interested readers, is a survey of scholarship in the mathematical sciences in ancient Greece and medieval Islam. It consists of six articles (three by Berggren himself) covering research from the middle of the 20th century to the present. The remainder

of the book contains studies by eminent scholars of the ancient and medieval mathematical sciences. They serve both as examples of the breadth of current approaches and topics, and as tributes to Berggren's interests by his friends and colleagues.

These proceedings reflect the special session on Experimental Mathematics held January 5, 2009, at the Joint Mathematics Meetings in Washington, DC as well as some papers specially solicited for this volume. Experimental Mathematics is a recently structured field of Mathematics that uses the computer and advanced computing technology as a tool to perform experiments. These include the analysis of examples, testing of new ideas, and the search of patterns to suggest results and to complement existing analytical rigor. The development of a broad spectrum of mathematical software products, such as Mathematica® and Maple™ has allowed mathematicians of diverse backgrounds and interests to use the computer as an essential tool as part of their daily work environment. This volume reflects a wide range of topics related to the young field of Experimental Mathematics. The use of computation varies from aiming to exclude human input in the solution of a problem to traditional mathematical questions for which computation is a prominent tool.

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A rigorous and comprehensive introduction to numerical analysis *Numerical Methods* provides a clear and concise exploration of standard numerical analysis topics, as well as nontraditional ones, including mathematical modeling, Monte Carlo methods, Markov chains, and fractals. Filled with appealing examples that will motivate students, the textbook considers modern application areas, such as information retrieval and animation, and classical topics from physics and engineering. Exercises use MATLAB and promote understanding of computational results. The book gives instructors the flexibility to emphasize different aspects—design, analysis, or computer implementation—of numerical algorithms, depending on the background and interests of students. Designed for upper-division undergraduates in mathematics or computer science classes, the textbook assumes that students have prior knowledge of linear algebra and calculus, although these topics are reviewed in the text. Short discussions of the history of numerical methods are interspersed throughout the chapters. The book also includes polynomial interpolation at Chebyshev points, use of the MATLAB package Chebfun, and a section on the fast Fourier transform. Supplementary materials are available online. Clear and concise exposition of standard numerical

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analysis topics Explores nontraditional topics, such as mathematical modeling and Monte Carlo methods Covers modern applications, including information retrieval and animation, and classical applications from physics and engineering Promotes understanding of computational results through MATLAB exercises Provides flexibility so instructors can emphasize mathematical or applied/computational aspects of numerical methods or a combination Includes recent results on polynomial interpolation at Chebyshev points and use of the MATLAB package Chebfun Short discussions of the history of numerical methods interspersed throughout Supplementary materials available online

An Edge of Your Seat Bundle... When turmoil and crime threatens innocent victims, it's up to the ordinary heroes of these novels to rise above the ordinary and battle threats to society. But do a cop, two spies, and a private investigator have the strength to do what's necessary to save an entire nation? International espionage, terrorism, political intrigue and serial killers will carry you to the very last page of this four-book bundle. With heart-pounding suspense and breathtaking thrills, these novels will sweep you into the heart of danger. Be prepared for the twists and turns as you are catapulted into plot-driven joyrides, complete with cops, spies, and

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P.I.s. THE 4 NOVEL BOX SET INCLUDES: THE HYTE MANEUVER--When Trans Air Flight 88 is hijacked on approach to Kennedy Airport, warning bells ring in every agency in the country. For the passengers and crew, the most terrifying hours of their lives unfold. When the hijacking ends with the deaths of the terrorists, and the hostages who lived freed, everyone believes the nightmare is over....but for Raymond HYTE and the surviving hostages, it was just the beginning, as a serial killer stalks the streets of New York, murdering all the surviving passengers. THE SOKOVA CONVENTION-- In a safe house in France, in 1947, a Russian KGB Agent enters and kills a master OSS agent and his wife during childbirth and kidnaps their infant son. The infant is rescued moments before the KGB agent can leave France. Every trace of this horrendous act is destroyed, and no record of the kidnapping exist. Decades later, a KGB sleeper-agent discovers a super-secret file detailing a decades old plot to control the White House and is determined to reveal his discovery--the Soviet sleeper is killed before he can complete the delivery to his CIA handler. The sleeper-agent lives long enough to warn CIA agent Kevin Chapin about a powerful mole in the American Government and how the mole's role in the upcoming Presidential elections are the key and unless he can expose the dark

secret, the ruthless enemies of our country will stop at nothing to seize control of the United States..... THE MORRISY MANIFEST--the treaty was the culmination of Steven Morrisy's career. The hours of negotiation and coded messages between the United States, the Soviet Union and China gave birth to a plan to ensure peace--but in a Capitol Hill office, someone is working to guarantee it will be stillborn. Morrisy wants to bring a new level of peace to the world, knowing his candidate for President must be elected if their plan is to succeed. But the enemies of peace have discovered this and will do whatever is necessary to destroy this chance for world peace. Even if it means killing anyone who stands in their way...even Steven Morrisy's fiancé.to discredit him. ANGELS IN MOURNING--Early one morning, Private investigator Gabe Storm is summoned to an apartment by the NYPD. Storm learns his best friend, Scotty Granger, a Broadway producer, is dead. Police say Granger was murdered in a botched burglary attempt. Unwilling to accept the NYPD's take on the crime, Storm pursues the mysterious killer into the underbelly of Broadway's high finance, the dangerous world of pimps, gangsters, the Mafia and through the halls of the U.S. Senate, where he learns how even a dead man cannot keep a secret. Search Terms: Literary, Thrillers, Action & Adventure, Literature &

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Fiction, Espionage, Mystery, Thriller & Suspense, Spies & Politics, Terrorism, Serial Murder, Noir Mystery

The essays collected in *Literary Location and Dislocation of Myth in the Colonial and Post/Colonial Anglophone World* examine how narratives have conveyed the diverse experiences of territorial belonging and alienation in postcolonial communities by rewriting traditional myths or creating new ones.

This book documents the history of pi from the dawn of mathematical time to the present. One of the beauties of the literature on pi is that it allows for the inclusion of very modern, yet accessible, mathematics. The articles on pi collected herein fall into various classes. First and foremost there is a selection from the mathematical and computational literature of four millennia. There is also a variety of historical studies on the cultural significance of the number. Additionally, there is a selection of pieces that are anecdotal, fanciful, or simply amusing. For this new edition, the authors have updated the original material while adding new material of historical and cultural interest. There is a substantial exposition of the recent history of the computation of digits of pi, a discussion of the normality of the distribution of the digits, and new translations of works by Viete and

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Huygen.

A colorful tour through the intriguing world of mathematics. Take a grand tour of the best of modern math, its most elegant solutions, most clever discoveries, most mind-bending propositions, and most impressive personalities. Writing with a light touch while showing the real mathematics, author Peter Schurer introduces you to the history of mathematics, number theory, combinatorics, geometry, graph theory, and "recreational mathematics." Requiring only high school math and a healthy curiosity, *Mathematical Journeys* helps you explore all those aspects of math that mathematicians themselves find most delightful. You'll discover brilliant, sometimes quirky and humorous tidbits like how to compute the digits of pi, the Josephus problem, mathematical amusements such as Nim and Wythoff's game, pizza slicing, and clever twists on rolling dice.

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STEMathematics is an instructional resource designed primarily for secondary level mathematics teachers and students interested in discovering how mathematics describes (and is applied to) our natural world. This resource provides both the historical elements and the technical aspects of various topics in mathematics that provide instructional context in the sciences, technology, and engineering, (STEM) disciplines. The purpose of STEMathematics is to help teachers become more personally interested in the topics they teach and to gain a broader perspective of how mathematics can be integrated with other subject disciplines.

A collection of math-oriented essays previously published in Scientific American, and American Scientist. One is titled Foolproof.

Mathematics at all levels is about the joy in the discovery; it's about finding things out. This fascinating book is a guide to that discovery process, presenting ideas for practical classroom-based experiments and extension activities. Each experiment is based on the work of a key mathematician who has shaped the way that the subject looks today, and there are historical notes to help teachers bring this work to life. The book includes instructions on how to recreate the experiments using practical mathematics, computer programs and graphical calculators; ideas for follow-up work; background information for teachers on the mathematics involved; and links to the new secondary numeracy strategy framework. Accompanying the book is a CD-ROM with downloadable computer programs that can be used and reworked as part of the experimental process. With a wide range of topics covered, and plenty of scope for interesting follow-up activities, the book will be a valuable tool for mathematics teachers looking to extend the curriculum.

This revised and updated second edition maintains the content and spirit of the first edition and includes a new chapter, "Recent Experiences", that provides examples of experimental mathematics

that have come to light since the publication of the first edition in 2003. For more examples and insights, Experimentation in Mathematics: Computational P

This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics, extending the function coverage of major programming languages well beyond their international standards, including full support for decimal floating-point arithmetic. Written with clarity and focusing on the C language, the work pays extensive attention to little-understood aspects of floating-point and integer arithmetic, and to software portability, as well as to important historical architectures. It extends support to a future 256-bit, floating-point format offering 70 decimal digits of precision. Select Topics and Features: references an exceptionally useful, author-maintained MathCW website, containing source code for the book's software, compiled libraries for numerous systems, pre-built C compilers, and other related materials; offers a unique approach to covering mathematical-function computation using decimal arithmetic; provides extremely versatile appendices for interfaces to numerous other languages: Ada, C#, C++, Fortran, Java,

and Pascal; presupposes only basic familiarity with computer programming in a common language, as well as early level algebra; supplies a library that readily adapts for existing scripting languages, with minimal effort; supports both binary and decimal arithmetic, in up to 10 different floating-point formats; covers a significant portion (with highly accurate implementations) of the U.S National Institute of Standards and Technology's 10-year project to codify mathematical functions. This highly practical text/reference is an invaluable tool for advanced undergraduates, recording many lessons of the intermingled history of computer hardware and software, numerical algorithms, and mathematics. In addition, professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades.

Until recently, evolutionary psychologists have considered human mating behavior to be universal and similar to other animals, painting a picture of human mating as visceral, animalistic, and instinctual. But that's not the whole story. In courtship and display, sexual competition and rivalry, we are guided by Mating Intelligence, or the

range of psychological abilities designed for sexual reproduction. In this book, psychologists Glenn Geher and Scott Barry Kaufman take a fascinating tour of the intersection of r sing and intelligence by drawing on cutting-edge research on evolutionary psychology, intelligence, creativity, personality, social psychology, developmental psychology, neuroscience, epigenetics, and more. This book will change the way you think about sex, dating, love, and the human mind.

Plenty of examples and case studies utilize Mathematica 7's newest tools, such as dynamic manipulations and adaptive three-dimensional plotting. Emphasizes the breadth of Mathematica and the impressive results of combining techniques from different areas. Whenever possible, the book shows how Mathematica can be used to discover new things. Striking examples include the design of a road on which a square wheel bike can ride, the design of a drill that can drill square holes, and new and surprising formulas for p. Visualization is emphasized throughout, with finely crafted graphics in each chapter. This text is a rigorous, detailed introduction to real analysis that presents the fundamentals with clear exposition and carefully written

definitions, theorems, and proofs. It is organized in a distinctive, flexible way that would make it equally appropriate to undergraduate mathematics majors who want to continue in mathematics, and to future mathematics teachers who want to understand the theory behind calculus. The Real Numbers and Real Analysis will serve as an excellent one-semester text for undergraduates majoring in mathematics, and for students in mathematics education who want a thorough understanding of the theory behind the real number system and calculus.

[Mating Intelligence Unleashed](#)

[Mathematics by Experiment](#)

[Alex's Adventures in Numberland](#)

[Foolproof, and Other Mathematical Meditations](#)

[Microsoft SQL Server 7.0 Programming Unleashed](#)

[Microsoft Exchange Server 5 Unleashed](#)

[A Sourcebook on the Recent History of Pi and Its Computation](#)

[The Problems They Solved, Why These Are Important, and What You Should Know about Them](#)

[Programming Using the MathCW Portable Software Library](#)

Pi: A Source Book

Pi: The Next Generation

Dispatches from the Wonderful World of Mathematics

This book teaches the reader everything he/she needs to know in order to use FreeBSD to its full potential. It will show individuals how to use the same FreeBSD power that Yahoo!, the Internet Movie Database, and many other high profile Internet sites depend on. Whether someone needs an enterprise class server, a small business server, or a dependable workstation, this book can be a very economical and powerful solution to your needs.

It is estimated that Exchange will have over 2 million users by the end of this year. This title covers new features of Exchange 5.0, including newly supported protocols, plus how to implement Exchange Server with the Internet. The CD-ROM contains a complete, searchable electronic library.

The book presents the proceedings of the 23rd International Conference on Difference Equations and Applications, ICDEA 2017, held at the West University of Timișoara, Romania, under the auspices of the International Society of Difference Equations (ISDE), July 24 - 28, 2017. It includes new and significant contributions in the field of difference equations, discrete dynamical systems and their applications in various sciences. Disseminating recent studies and related results and promoting advances, the book appeals to PhD students, researchers, educators and practitioners in the field.

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The world of maths can seem mind-boggling, irrelevant and, let's face it, boring. This groundbreaking book reclaims maths from the geeks. Mathematical ideas underpin just about everything in our lives: from the surprising geometry of the 50p piece to how probability can help you win in any casino. In search of weird and wonderful mathematical phenomena, Alex Bellos travels across the globe and meets the world's fastest mental calculators in Germany and a startlingly numerate chimpanzee in Japan. Packed with fascinating, eye-opening anecdotes, Alex's Adventures in Numberland is an exhilarating cocktail of history, reportage and mathematical proofs that will leave you awestruck.

The original title for this work was "Mathematical Literacy, What Is It and Why You Need it". The current title reflects that there can be no real learning in any subject, unless questions of who, what, when, where, why and how are raised in the minds of the learners. The book is not a mathematical text, and there are no assigned exercises or exams. It is written for reasonably intelligent and curious individuals, both those who value mathematics, aware of its many important applications and others who have been inappropriately exposed to mathematics, leading to indifference to the subject, fear and even loathing. These feelings are all consequences of meaningless presentations, drill, rote learning and being lost as the purpose of what is being studied. Mathematics education needs a radical reform. There is more than one way to accomplish this. Here the author presents his approach of wrapping mathematical ideas in a story. To learn

one first must develop an interest in a problem and the curiosity to find how masters of mathematics have solved them. What is necessary to be mathematically literate? It's not about solving algebraic equations or even making a geometric proof. These are valuable skills but not evidence of literacy. We often seek answers but learning to ask pertinent questions is the road to mathematical literacy. Here is the good news: new mathematical ideas have a way of finding applications. This is known as "the unreasonable effectiveness of mathematics."

"The book presents focused explanations of the core features and complexities of SQL Server 7.0 programming, including advanced scripting techniques, real-world data warehousing, building scalable applications, creating complex stored procedures, and maximizing data integrity and security."--BOOK JACKET. Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

"The numbers one through nine have remarkable mathematical properties and characteristics. For instance, why do eight perfect card shuffles leave a standard deck of cards unchanged? Are there really "six degrees of separation" between all pairs of people? And how can any map need only four colors to ensure that no regions of the same color touch? In Single Digits, Marc Chamberland takes readers on a fascinating exploration of small numbers, from one to nine, looking at their history, applications, and connections to various areas of mathematics, including number theory, geometry, chaos theory, numerical analysis, and mathematical physics."--Jacket.

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If you are looking for a low budget, small form-factor remotely accessible hacking tool, then the concepts in this book are ideal for you. If you are a penetration tester who wants to save on travel costs by placing a low-cost node on a target network, you will save thousands by using the methods covered in this book. You do not have to be a skilled hacker or programmer to use this book. It will be beneficial to have some networking experience; however, it is not required to follow the concepts covered in this book.

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The industry's most complete, useful, and up-to-date guide to SQL Server 2014. You'll find start-to-finish coverage of SQL Server's core database server and management capabilities: all the real-world information, tips, guidelines, and examples you'll need to install, monitor, maintain, and optimize the most complex database environments. The provided examples and sample code provide plenty of hands-on opportunities to learn more about SQL Server and create your own viable solutions. Four leading SQL Server experts present deep practical insights for administering SQL Server, analyzing and optimizing queries, implementing data warehouses, ensuring high availability, tuning performance, and much more. You will benefit from their behind-the-scenes look into SQL Server, showing what goes on behind the various wizards and GUI-based tools. You'll learn how to use the underlying SQL commands to fully unlock the power and capabilities of SQL Server. Writing for all intermediate-to-advanced-level SQL Server professionals, the authors draw on immense production experience with SQL Server. Throughout, they focus on successfully applying SQL Server 2014's most powerful capabilities and its newest tools and features. Detailed information on how to...
Understand SQL Server 2014's new features and each edition's capabilities and licensing
Install, upgrade to, and configure SQL Server 2014 for better performance and easier management
Streamline and automate key administration tasks with Smart Admin
Leverage powerful new backup/restore options: flexible backup to URL, Managed Backup to Windows Azure, and encrypted backups
Strengthen security with

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new features for enforcing “least privilege” Improve performance with updateable columnstore indexes, Delayed Durability, and other enhancements Execute queries and business logic more efficiently with memoryoptimized tables, buffer pool extension, and natively-compiled stored procedures Control workloads and Disk I/O with the Resource Governor Deploy AlwaysOn Availability Groups and Failover Cluster Instances to achieve enterprise-class availability and disaster recovery Apply new Business Intelligence improvements in Master Data Services, data quality, and Parallel Data Warehouse

This is a text for students who have had a three-course calculus sequence and who are ready to explore the logical structure of analysis as the backbone of calculus. It begins with a development of the real numbers, building this system from more basic objects (natural numbers, integers, rational numbers, Cauchy sequences), and it produces basic algebraic and metric properties of the real number line as propositions, rather than axioms. The text also makes use of the complex numbers and incorporates this into the development of differential and integral calculus. For example, it develops the theory of the exponential function for both real and complex arguments, and it makes a geometrical study of the curve $(\exp(it))$, for real t , leading to a self-contained development of the trigonometric functions and to a derivation of the Euler identity that is very different from what one typically sees. Further topics include metric spaces, the Stone–Weierstrass theorem, and Fourier series.

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With this book, Christopher Kormanyos delivers a highly practical guide to programming real-time embedded microcontroller systems in C++. It is divided into three parts plus several appendices. Part I provides a foundation for real-time C++ by covering language technologies, including object-oriented methods, template programming and optimization. Next, part II presents detailed descriptions of a variety of C++ components that are widely used in microcontroller programming. It details some of C++'s most powerful language elements, such as class types, templates and the STL, to develop components for microcontroller register access, low-level drivers, custom memory management, embedded containers, multitasking, etc. Finally, part III describes mathematical methods and generic utilities that can be employed to solve recurring problems in real-time C++. The appendices include a brief C++ language tutorial, information on the real-time C++ development environment and instructions for building GNU GCC cross-compilers and a microcontroller circuit. For this fourth edition, the most recent specification of C++20 is used throughout the text. Several sections on new C++20 functionality have been added, and various others reworked to reflect changes in the standard. Also several new example projects ranging from introductory to advanced level are included and existing ones extended, and various reader suggestions have been incorporated. Efficiency is always in focus and numerous examples are backed up with runtime measurements and size analyses that quantify the true costs of the code down to the very last byte and microsecond. The target

audience of this book mainly consists of students and professionals interested in real-time C++. Readers should be familiar with C or another programming language and will benefit most if they have had some previous experience with microcontroller electronics and the performance and size issues prevalent in embedded systems programming.

A comprehensive look at four of the most famous problems in mathematics *Tales of Impossibility* recounts the intriguing story of the renowned problems of antiquity, four of the most famous and studied questions in the history of mathematics. First posed by the ancient Greeks, these compass and straightedge problems—squaring the circle, trisecting an angle, doubling the cube, and inscribing regular polygons in a circle—have served as ever-present muses for mathematicians for more than two millennia. David Richeson follows the trail of these problems to show that ultimately their proofs—which demonstrated the impossibility of solving them using only a compass and straightedge—depended on and resulted in the growth of mathematics. Richeson investigates how celebrated luminaries, including Euclid, Archimedes, Viète, Descartes, Newton, and Gauss, labored to understand these problems and how many major mathematical discoveries were related to their explorations. Although the problems were based in geometry, their resolutions were not, and had to wait until the nineteenth century, when mathematicians had developed the theory of real and complex numbers, analytic geometry, algebra, and calculus. Pierre Wantzel, a little-known mathematician, and Ferdinand von Lindemann, through his work on pi, finally determined the problems

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were impossible to solve. Along the way, Richeson provides entertaining anecdotes connected to the problems, such as how the Indiana state legislature passed a bill setting an incorrect value for pi and how Leonardo da Vinci made elegant contributions in his own study of these problems. Taking readers from the classical period to the present, *Tales of Impossibility* chronicles how four unsolvable problems have captivated mathematical thinking for centuries.

[The Role of the Mind in Sex, Dating, and Love](#)

[Problem Solving Through Visualization and Computation](#)

[Choice](#)

[The 2000-Year Quest to Solve the Mathematical Problems of Antiquity](#)

[Numerical Methods](#)

[The Experimenter's A-Z of Mathematics](#)

[The Best Writing on Mathematics 2016](#)

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[in Honor of J.L. Berggren](#)

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