Disappearing Cryptography Third Edition Information Hiding Steganography Watermarking The Morgan Kaufmann Series In Software Engineering And Programming

Python ProgrammingInformation HidingThe Third CPSR Cryptography and Privacy ConferenceCorporate Computer SecurityOptical and Digital Techniques for Information SecurityChoiceMastering MoneroPolicing Online GamesSecurity in Communication NetworksInvent Your Own Computer Games with Python, 4th EditionMr. Penumbra's 24-Hour BookstoreHandbook of Surveillance Technologies, Third EditionInformation Warfare and SecurityIf Elephants DisappearedEloquent JavaScriptIf Polar Bears DisappearedUnderstanding the InternetEffective JavaGuide to Elliptic Curve CryptographyCyber Warfare and Cyber TerrorismBooks in Print, 2004-2005Cryptography and Network SecurityNetwork Intrusion DetectionBlown to BitsElliptic CurvesDigital Watermarking and SteganographyDisappearing CryptographyComputer and Information Security HandbookHiding in Plain SightMathematics and Its HistoryCryptography EngineeringLibrary JournalApplied CryptographyGame Engine Architecture, Third EditionComputer and Information Security HandbookComputer SecurityStory-Based Inquiry: A Manual for Investigative JournalistsIntroduction to Data

CompressionPython CookbookMastering Blockchain

Python Programming

Every day, billions of photographs, news stories, songs, X-rays, TV shows, phone calls, and emails are being scattered around the world as sequences of zeroes and ones: bits. We can't escape this explosion of digital information and few of us want to-the benefits are too seductive. The technology has enabled unprecedented innovation, collaboration, entertainment, and democratic participation. But the same engineering marvels are shattering centuries-old assumptions about privacy, identity, free expression, and personal control as more and more details of our lives are captured as digital data. Can you control who sees all that personal information about you? Can email be truly confidential, when nothing seems to be private? Shouldn't the Internet be censored the way radio and TV are? is it really a federal crime to download music? When you use Google or Yahoo! to search for something, how do they decide which sites to show you? Do you still have free speech in the digital world? Do you have a voice in shaping government or corporate policies about any of this? Blown to Bits offers provocative answers to these questions and tells intriguing real-life stories. This book is a wake-up call To The human consequences of the digital explosion.

Information Hiding

The freezing ecosystem in the far north of the globe is home to many different kinds of animals. They can be Strong, like a walrus Tough, like a lemming Resilient, like an arctic fox But no arctic animal is as iconic as the polar bear. Unfortunately, the endangered polar bear is threatened with extinction due to rapid climate change that is causing the ice where it hunts/lives to melt at an alarming rate. If Polar Bears Disappeared uses accessible, charming art to explore what would happen if the sea ice melts, causing the extinction of polar bears, and how it would affect environments around the globe.

The Third CPSR Cryptography and Privacy Conference

JavaScript is at the heart of almost every modern Web application, whether it's Google Apps, Twitter, or the newest browser-based game. Though it's simple for beginners to pick up and play with, JavaScript is not a toy—it's a flexible and complex language that can be used to build full-scale applications. Eloquent JavaScript dives into this flourishing language and teaches you to write code that's beautiful and effective. By immersing you in example code and encouraging experimentation right from the start, the author quickly gives you the tools you need to build your own programs. As you follow along with examples like an artificial life simulation and a version of the classic game Sokoban, you'll learn to: –Understand the essential elements of programming: syntax, control, and data –Use object-oriented and functional programming techniques to organize and

clarify your programs –Script the browser and make basic Web applications –Work with tools like regular expressions and XMLHttpRequest objects And since programming is an art that's best learned by doing, all example code is available online in an interactive sandbox for you to experiment with. With Eloquent JavaScript as your guide, you can tweak, expand, and modify the author's code, or throw it away and build your own creations from scratch. Before you know it, you'll be fluent in the language of the Web.

Corporate Computer Security

From the world's most renowned security technologist, Bruce Schneier, this 20th Anniversary Edition is the most definitive reference on cryptography ever published and is the seminal work on cryptography. Cryptographic techniques have applications far beyond the obvious uses of encoding and decoding information. For developers who need to know about capabilities, such as digital signatures, that depend on cryptographic techniques, there's no better overview than Applied Cryptography, the definitive book on the subject. Bruce Schneier covers general classes of cryptographic protocols and then specific techniques, detailing the inner workings of real-world cryptographic algorithms including the Data Encryption Standard and RSA public-key cryptosystems. The book includes source-code listings and extensive advice on the practical aspects of cryptography implementation, such as the importance of generating truly random numbers and of keeping keys secure. ". . .the best introduction to

cryptography I've ever seen. . . .The book the National Security Agency wanted never to be published. . . ." -Wired Magazine ". . .monumental . . . fascinating . . . comprehensive . . . the definitive work on cryptography for computer programmers . . ." -Dr. Dobb's Journal ". . .easily ranks as one of the most authoritative in its field." -PC Magazine The book details how programmers and electronic communications professionals can use cryptography-the technique of enciphering and deciphering messages-to maintain the privacy of computer data. It describes dozens of cryptography algorithms, gives practical advice on how to implement them into cryptographic software, and shows how they can be used to solve security problems. The book shows programmers who design computer applications, networks, and storage systems how they can build security into their software and systems. With a new Introduction by the author, this premium edition will be a keepsake for all those committed to computer and cyber security.

Optical and Digital Techniques for Information Security

A completely up-to-date resource on computer security Assuming no previous experience in the field of computer security, this must-have book walks you through the many essential aspects of this vast topic, from the newest advances in software and technology to the most recent information on Web applications security. This new edition includes sections on Windows NT, CORBA, and Java and discusses cross-

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site scripting and JavaScript hacking as well as SQL injection. Serving as a helpful introduction, this self-study guide is a wonderful starting point for examining the variety of competing security systems and what makes them different from one another. Unravels the complex topic of computer security and breaks it down in such a way as to serve as an ideal introduction for beginners in the field of computer security Examines the foundations of computer security and its basic principles Addresses username and password, password protection, single sign-on, and more Discusses operating system integrity, hardware security features, and memory Covers Unix security, Windows security, database security, network security, web security, and software security Packed with in-depth coverage, this resource spares no details when it comes to the critical topic of computer security.

Choice

Are you looking for a deeper understanding of the Java™ programming language so that you can write code that is clearer, more correct, more robust, and more reusable? Look no further! Effective Java™, Second Edition, brings together seventy-eight indispensable programmer's rules of thumb: working, best-practice solutions for the programming challenges you encounter every day. This highly anticipated new edition of the classic, Jolt Award-winning work has been thoroughly updated to cover Java SE 5 and Java SE 6 features introduced since the first edition. Bloch explores new design patterns and

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language idioms, showing you how to make the most of features ranging from generics to enums, annotations to autoboxing. Each chapter in the book consists of several "items" presented in the form of a short, standalone essay that provides specific advice, insight into Java platform subtleties, and outstanding code examples. The comprehensive descriptions and explanations for each item illuminate what to do, what not to do, and why. Highlights include: New coverage of generics, enums, annotations, autoboxing, the for-each loop, varargs, concurrency utilities, and much more Updated techniques and best practices on classic topics, including objects, classes, libraries, methods, and serialization How to avoid the traps and pitfalls of commonly misunderstood subtleties of the language Focus on the language and its most fundamental libraries: java.lang, java.util, and, to a lesser extent, java.util.concurrent and java.io Simply put, Effective Java™, Second Edition, presents the most practical, authoritative guidelines available for writing efficient, well-designed programs.

Mastering Monero

The second edition of this comprehensive handbook of computer and information security provides the most complete view of computer security and privacy available. It offers in-depth coverage of security theory, technology, and practice as they relate to established technologies as well as recent advances. It explores practical solutions to many security issues. Individual chapters are authored by leading experts in the field and address the immediate and long-term

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challenges in the authors' respective areas of expertise. The book is organized into 10 parts comprised of 70 contributed chapters by leading experts in the areas of networking and systems security, information management, cyber warfare and security, encryption technology, privacy, data storage, physical security, and a host of advanced security topics. New to this edition are chapters on intrusion detection, securing the cloud, securing web apps, ethical hacking, cyber forensics, physical security, disaster recovery, cyber attack deterrence, and more. Chapters by leaders in the field on theory and practice of computer and information security technology, allowing the reader to develop a new level of technical expertise Comprehensive and up-to-date coverage of security issues allows the reader to remain current and fully informed from multiple viewpoints Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

Policing Online Games

A gleeful and exhilarating tale of global conspiracy, complex code-breaking, high-tech data visualization, young love, rollicking adventure, and the secret to eternal life—mostly set in a hole-in-the-wall San Francisco bookstore The Great Recession has shuffled Clay Jannon out of his life as a San Francisco Web-design drone—and serendipity, sheer curiosity, and the ability to climb a ladder like a monkey has landed him a new gig working the night shift at Mr.

Penumbra's 24-Hour Bookstore. But after just a few days on the job, Clay begins to realize that this store is even more curious than the name suggests. There are only a few customers, but they come in repeatedly and never seem to actually buy anything, instead "checking out" impossibly obscure volumes from strange corners of the store, all according to some elaborate, long-standing arrangement with the gnomic Mr. Penumbra. The store must be a front for something larger, Clay concludes, and soon he's embarked on a complex analysis of the customers' behavior and roped his friends into helping to figure out just what's going on. But once they bring their findings to Mr. Penumbra, it turns out the secrets extend far outside the walls of the bookstore. With irresistible brio and dazzling intelligence, Robin Sloan has crafted a literary adventure story for the twenty-first century, evoking both the fairy-tale charm of Haruki Murakami and the enthusiastic novel-of-ideas wizardry of Neal Stephenson or a young Umberto Eco, but with a unique and feisty sensibility that's rare to the world of literary fiction. Mr. Penumbra's 24-Hour Bookstore is exactly what it sounds like: an establishment you have to enter and will never want to leave, a modern-day cabinet of wonders ready to give a jolt of energy to every curious reader, no matter the time of day.

Security in Communication Networks

Presents information on how to analyze risks to your networks and the steps needed to select and deploy the appropriate countermeasures to reduce your

exposure to physical and network threats. Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements, including Internet security threats and measures (audit trails IP sniffing/spoofing etc.) and how to implement security policies and procedures. In addition, this book covers security and network design with respect to particular vulnerabilities and threats. It also covers risk assessment and mitigation and auditing and testing of security systems as well as application standards and technologies required to build secure VPNs, configure client software and server operating systems, IPsec-enabled routers, firewalls and SSL clients. This comprehensive book will provide essential knowledge and skills needed to select, design and deploy a public key infrastructure (PKI) to secure existing and future applications. * Chapters contributed by leaders in the field cover theory and practice of computer security technology, allowing the reader to develop a new level of technical expertise * Comprehensive and up-to-date coverage of security issues facilitates learning and allows the reader to remain current and fully informed from multiple viewpoints * Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

Invent Your Own Computer Games with Python, 4th Edition

Mr. Penumbra's 24-Hour Bookstore

warfare technologies and their limitations, particularly the limitations of defensive technologies. Whatever your interest or role in the emerging field of information warfare, this book will give you the background you need to make informed judgments about potential threats and our defenses against them. 0201433036B04062001

Handbook of Surveillance Technologies, Third Edition

This book is a training aid and reference for intrusion detection analysts. While the authors refer to research and theory, they focus their attention on providing practical information. New to this edition is coverage of packet dissection, IP datagram fields, forensics, and snort filters.

Information Warfare and Security

If Elephants Disappeared

A straightforward overview with minimum technical descriptions of the underlying networking principles, standards, applications and uses of the Internet. Understanding the Internet explains the underlying networking concepts, the protocols and standards which comprise the Internet, Internet trends and applications, the mobile Internet, security and the hidden Web. The Internet and World Wide Web are dramatically changing the world we live in and this book provides a holistic view of the Internet so that

practitioners and users can more fully understand the concepts involved. Written by a highly knowledgeable and well-respected practitioner in the field Draws on the author's wide-ranging practical experience of developing web and mobile web applications and indeed teaching Internet technologies at a university for many years Provides insight into how the Internet is put together and the novel applications which are currently residing on it

Eloquent JavaScript

The ultimate guide to cryptography, updated from an author team of the world's top cryptography experts. Cryptography is vital to keeping information safe, in an era when the formula to do so becomes more and more challenging. Written by a team of world-renowned cryptography experts, this essential guide is the definitive introduction to all major areas of cryptography: message security, key negotiation, and key management. You'll learn how to think like a cryptographer. You'll discover techniques for building cryptography into products from the start and you'll examine the many technical changes in the field. After a basic overview of cryptography and what it means today, this indispensable resource covers such topics as block ciphers, block modes, hash functions, encryption modes, message authentication codes, implementation issues, negotiation protocols, and more. Helpful examples and hands-on exercises enhance your understanding of the multi-faceted field of cryptography. An author team of internationally recognized cryptography experts updates you on vital

topics in the field of cryptography Shows you how to build cryptography into products from the start Examines updates and changes to cryptography Includes coverage on key servers, message security, authentication codes, new standards, block ciphers, message authentication codes, and more Cryptography Engineering gets you up to speed in the ever-evolving field of cryptography.

If Polar Bears Disappeared

Understanding the Internet

After two decades of research and development, elliptic curve cryptography now has widespread exposure and acceptance. Industry, banking, and government standards are in place to facilitate extensive deployment of this efficient public-key mechanism. Anchored by a comprehensive treatment of the practical aspects of elliptic curve cryptography (ECC), this guide explains the basic mathematics, describes state-of-the-art implementation methods, and presents standardized protocols for public-key encryption, digital signatures, and key establishment. In addition, the book addresses some issues that arise in software and hardware implementation, as well as side-channel attacks and countermeasures. Readers receive the theoretical fundamentals as an underpinning for a wealth of practical and accessible knowledge about efficient application. Features & Benefits: * Breadth of coverage and unified, integrated approach to elliptic curve cryptosystems *

Describes important industry and government protocols, such as the FIPS 186-2 standard from the U.S. National Institute for Standards and Technology * Provides full exposition on techniques for efficiently implementing finite-field and elliptic curve arithmetic * Distills complex mathematics and algorithms for easy understanding * Includes useful literature references, a list of algorithms, and appendices on sample parameters, ECC standards, and software tools This comprehensive, highly focused reference is a useful and indispensable resource for practitioners, professionals, or researchers in computer science, computer engineering, network design, and network data security.

Effective Java

Guide to Elliptic Curve Cryptography

This textbook provides a unified and concise exploration of undergraduate mathematics by approaching the subject through its history. Readers will discover the rich tapestry of ideas behind familiar topics from the undergraduate curriculum, such as calculus, algebra, topology, and more. Featuring historical episodes ranging from the Ancient Greeks to Fermat and Descartes, this volume offers a glimpse into the broader context in which these ideas developed, revealing unexpected connections that make this ideal for a senior capstone course. The presentation of previous versions has been refined by omitting the less mainstream topics and inserting new

connecting material, allowing instructors to cover the book in a one-semester course. This condensed edition prioritizes succinctness and cohesiveness, and there is a greater emphasis on visual clarity, featuring full color images and high quality 3D models. As in previous editions, a wide array of mathematical topics are covered, from geometry to computation; however, biographical sketches have been omitted.

Mathematics and Its History: A Concise Edition is an essential resource for courses or reading programs on the history of mathematics. Knowledge of basic calculus, algebra, geometry, topology, and set theory is assumed. From reviews of previous editions: "Mathematics and Its History is a joy to read. The writing is clear, concise and inviting. The style is very different from a traditional text. I found myself picking it up to read at the expense of my usual late evening thriller or detective novel. The author has done a wonderful job of tying together the dominant themes of undergraduate mathematics." Richard J. Wilders, MAA, on the Third Edition "The bookis presented in a lively style without unnecessary detail. It is very stimulating and will be appreciated not only by students. Much attention is paid to problems and to the development of mathematics before the end of the nineteenth century. This book brings to the non-specialist interested in mathematics many interesting results. It can be recommended for seminars and will be enjoyed by the broad mathematical community." European Mathematical Society, on the Second Edition

Cyber Warfare and Cyber Terrorism

This book is suitable for use in a university-level first course in computing (CS1), as well as the increasingly popular course known as CS0. It is difficult for many students to master basic concepts in computer science and programming. A large portion of the confusion can be blamed on the complexity of the tools and materials that are traditionally used to teach CS1 and CS2. This textbook was written with a single overarching goal: to present the core concepts of computer science as simply as possible without being simplistic.

Books in Print, 2004-2005

Includes documents, news items, reports from government agencies, legislative proposals, summary of laws, & public statements intended to provide an overview of the critical issues in today's policy debate. Both sides of an issue are fairly presented. Includes: the history of the Computer Security Act, the Clipper proposal, the FBI digital telephony proposal, cryptography & export controls & emerging applications of cryptography. Illustrated.

Cryptography and Network Security

"Mastering Monero - The future of private transactions" is the newest resource to help you learn everything that you want to know about the cryptocurrency Monero. The book, available in electronic and physical form, provides the knowledge you need to participate in this exciting grassroots, open-source, decentralized, community-driven

privacy project. Whether you are a novice or highly experienced, this book will teach you how to start using and contributing to Monero. The resource introduces readers to the cryptocurrency world and then explains how Monero works, what technologies it uses, and how you can get started in this fantastic world! For technical people, there are some chapters that provide in-depth understanding of the Monero ecosystem. The Monero cryptocurrency is designed to address and avoid practical troubles that arise from using coins that do not protect your sensitive financial information. Cryptocurrencies have revolutionized the financial landscape by allowing anybody with an internet connection to instantly access secure, robust, censorship-free systems for receiving, storing, and sending funds. This paradigm shift was enabled by blockchain technology, by which thousands of participants store matching copies of a "public ledger". While this brilliant approach overcomes many economic hurdles, it also gives rise to a few severe downsides. Marketing corporations, snooping governments, and curious family members can analyze the public ledger to monitor your savings or study your activities. Monero mitigates these issues with a suite of advanced privacy technologies that allow you to have the best of all worlds! Instead of a public ledger, Monero has a shared private ledger that allows you to reap the benefits of a blockchain-based cryptocurrency, while protecting your sensitive business from prying eyes. This book contains everything you need to know to start using Monero in your business or day-to-day life. What are you waiting for? Get your copy of Mastering Monero now!

Network Intrusion Detection

Blown to Bits

Explains exactly what steganography is-hiding a message inside an innocuous picture or music file-and how it has become a popular tool for secretly sending and receiving messages for both the good guys and the bad guys First book to describe international terrorists' cybersecurity tool of choice in an accessible language Author is a top security consultant for the CIA and provides gripping stories that show how steganography works Appendix provides tools to help people detect and counteract stenanography

Elliptic Curves

What would happen if elephants disappeared? Trace the repercussions of a world without elephants in writer and illustrator Lily Williams' third picture book about loss and conservation. The Congolese forest is home to many types of animals. Some are strong. Some are slippery. Some are loud. And some, like the elephant, are BIG. The elephant has become synonymous with the image of African wildlife. They can grow over 10 feet tall and eat up to 300 pounds a day. While these giants are beloved figures in movies and zoos, they also play a large role in keeping the forest ecosystem healthy. Unfortunately, poachers are hunting elephants rapidly to extinction for their ivory tusks, and that could be catastrophic to the world as we know it.

Digital Watermarking and Steganography

Disappearing Cryptography

There are wide-ranging implications in information security beyond national defense. Securing our information has implications for virtually all aspects of our lives, including protecting the privacy of our ?nancial transactions and medical records, facilitating all operations of government, maintaining the integrity of national borders, securing important facilities, ensuring the safety of our food and commercial products, protecting the safety of our aviation system—even safeguarding the integrity of our very identity against theft. Information security is a vital element in all of these activities, particularly as information collection and distribution become ever more connected through electronic information delivery systems and commerce. This book encompasses results of research investigation and technologies that can be used to secure, protect, verify, and authenticate objects and inf- mation from theft, counterfeiting, and manipulation by unauthorized persons and agencies. The book has drawn on the diverse expertise in optical sciences and engineering, digital image processing, imaging systems, information p- cessing, mathematical algorithms, quantum optics, computer-based infor- tion systems, sensors, detectors, and biometrics to report novel technologies that can be applied to information-security issues. The book is unique

because it has diverse contributions from the ?eld of optics, which is a new emerging technology for security, and digital techniques that are very accessible and can be interfaced with optics to produce highly e?ective security systems.

Computer and Information Security Handbook

Each edition of Introduction to Data Compression has widely been considered the best introduction and reference text on the art and science of data compression, and the third edition continues in this tradition. Data compression techniques and technology are ever-evolving with new applications in image, speech, text, audio, and video. The third edition includes all the cutting edge updates the reader will need during the work day and in class. Khalid Sayood provides an extensive introduction to the theory underlying today's compression techniques with detailed instruction for their applications using several examples to explain the concepts. Encompassing the entire field of data compression Introduction to Data Compression, includes lossless and lossy compression, Huffman coding, arithmetic coding, dictionary techniques, context based compression, scalar and vector quantization. Khalid Sayood provides a working knowledge of data compression, giving the reader the tools to develop a complete and concise compression package upon completion of his book. *New content added on the topic of audio compression including a description of the mp3 algorithm *New video coding standard and

new facsimile standard explained *Completely explains established and emerging standards in depth including JPEG 2000, JPEG-LS, MPEG-2, Group 3 and 4 faxes, JBIG 2, ADPCM, LPC, CELP, and MELP *Source code provided via companion web site that gives readers the opportunity to build their own algorithms, choose and implement techniques in their own applications

Hiding in Plain Sight

Like its bestselling predecessor, Elliptic Curves: Number Theory and Cryptography, Second Edition develops the theory of elliptic curves to provide a basis for both number theoretic and cryptographic applications. With additional exercises, this edition offers more comprehensive coverage of the fundamental theory, techniques, and applications of elliptic curves. New to the Second Edition Chapters on isogenies and hyperelliptic curves A discussion of alternative coordinate systems, such as projective, Jacobian, and Edwards coordinates, along with related computational issues A more complete treatment of the Weil and Tate–Lichtenbaum pairings Doud's analytic method for computing torsion on elliptic curves over Q An explanation of how to perform calculations with elliptic curves in several popular computer algebra systems Taking a basic approach to elliptic curves, this accessible book prepares readers to tackle more advanced problems in the field. It introduces elliptic curves over finite fields early in the text, before moving on to interesting applications, such as cryptography, factoring, and primality testing.

The book also discusses the use of elliptic curves in Fermat's Last Theorem. Relevant abstract algebra material on group theory and fields can be found in the appendices.

Mathematics and Its History

From officially sanctioned, high-tech operations to budget spy cameras and cell phone video, this updated and expanded edition of a bestselling handbook reflects the rapid and significant growth of the surveillance industry. The Handbook of Surveillance Technologies, Third Edition is the only comprehensive work to chronicle the background and current applications of the full-range of surveillance technologies—offering the latest in surveillance and privacy issues. Cutting-Edge—updates its bestselling predecessor with discussions on social media, GPS circuits in cell phones and PDAs, new GIS systems, Google street-viewing technology, satellite surveillance, sonar and biometric surveillance systems, and emerging developments Comprehensive—from sonar and biometric surveillance systems to satellites, it describes spy devices, legislation, and privacy issues—from their historical origins to current applications—including recent controversies and changes in the structure of the intelligence community at home and abroad Modular—chapters can be read in any order—browse as a professional reference on an as-needed basis—or use as a text forSurveillance Studies courses Using a narrative style and more than 950 illustrations, this handbook will help journalists/newscasters, privacy

organizations, and civic planners grasp technical aspects while also providing professional-level information for surveillance studies, sociology and political science educators, law enforcement personnel, and forensic trainees. It includes extensive resource information for further study at the end of each chapter. Covers the full spectrum of surveillance systems, including: Radar • Sonar • RF/ID • Satellite • Ultraviolet • Infrared • Biometric • Genetic • Animal • Biochemical • Computer • Wiretapping • Audio • Cryptologic • Chemical • Biological • X-Ray • Magnetic

Cryptography Engineering

If you need help writing programs in Python 3, or want to update older Python 2 code, this book is just the ticket. Packed with practical recipes written and tested with Python 3.3, this unique cookbook is for experienced Python programmers who want to focus on modern tools and idioms. Inside, you'll find complete recipes for more than a dozen topics, covering the core Python language as well as tasks common to a wide variety of application domains. Each recipe contains code samples you can use in your projects right away, along with a discussion about how and why the solution works. Topics include: Data Structures and Algorithms Strings and Text Numbers, Dates, and Times Iterators and Generators Files and I/O Data Encoding and Processing Functions Classes and Objects Metaprogramming Modules and Packages Network and Web Programming Concurrency Utility Scripting

and System Administration Testing, Debugging, and Exceptions C Extensions

Library Journal

"This book reviews problems, issues, and presentations of the newest research in the field of cyberwarfare and cyberterrorism. While enormous efficiencies have been gained as a result of computers and telecommunications technologies, use of these systems and networks translates into a major concentration of information resources, createing a vulnerability to a host of attacks and exploitations"--Provided by publisher.

Applied Cryptography

Digital audio, video, images, and documents are flying through cyberspace to their respective owners. Unfortunately, along the way, individuals may choose to intervene and take this content for themselves. Digital watermarking and steganography technology greatly reduces the instances of this by limiting or eliminating the ability of third parties to decipher the content that he has taken. The many techiniques of digital watermarking (embedding a code) and steganography (hiding information) continue to evolve as applications that necessitate them do the same. The authors of this second edition provide an update on the framework for applying these techniques that they provided researchers and professionals in the first well-received edition. Steganography and steganalysis (the art of detecting

hidden information) have been added to a robust treatment of digital watermarking, as many in each field research and deal with the other. New material includes watermarking with side information, QIM, and dirty-paper codes. The revision and inclusion of new material by these influential authors has created a must-own book for anyone in this profession. This new edition now contains essential information on steganalysis and steganography New concepts and new applications including QIM introduced Digital watermark embedding is given a complete update with new processes and applications

Game Engine Architecture, Third Edition

In this new and improved third edition of the highly popular Game Engine Architecture, Jason Gregory draws on his nearly two decades of experience at Midway, Electronic Arts and Naughty Dog to present both the theory and practice of game engine software development. In this book, the broad range of technologies and techniques used by AAA game studios are each explained in detail, and their roles within a real industrial-strength game engine are illustrated. New to the Third Edition This third edition offers the same comprehensive coverage of game engine architecture provided by previous editions, along with updated coverage of: computer and CPU hardware and memory caches, compiler optimizations, C++ language standardization, the IEEE-754 floating-point representation, 2D user interfaces, plus an entirely new chapter on hardware parallelism and concurrent programming. This book is

intended to serve as an introductory text, but it also offers the experienced game programmer a useful perspective on aspects of game development technology with which they may not have deep experience. As always, copious references and citations are provided in this edition, making it an excellent jumping off point for those who wish to dig deeper into any particular aspect of the game development process. Key Features Covers both the theory and practice of game engine software development Examples are grounded in specific technologies, but discussion extends beyond any particular engine or API. Includes all mathematical background needed. Comprehensive text for beginners and also has content for senior engineers.

Computer and Information Security Handbook

Cryptology is the practice of hiding digital information by means of various obfuscatory and steganographic techniques. The application of said techniques facilitates message confidentiality and sender/receiver identity authentication, and helps to ensure the integrity and security of computer passwords, ATM card information, digital signatures, DVD and HDDVD content, and electronic commerce. Cryptography is also central to digital rights management (DRM), a group of techniques for technologically controlling the use of copyrighted material that is being widely implemented and deployed at the behest of corporations that own and create revenue from the hundreds of thousands of

This new edition of our best-selling book on cryptography and information hiding delineates a number of different methods to hide information in all types of digital media files. These methods include encryption, compression, data embedding and watermarking, data mimicry, and scrambling. During the last 5 years, the continued advancement and exponential increase of computer processing power have enhanced the efficacy and scope of electronic espionage and content appropriation. Therefore, this edition has amended and expanded outdated sections in accordance with new dangers, and includes 5 completely new chapters that introduce newer more sophisticated and refined cryptographic algorithms and techniques (such as fingerprinting, synchronization, and quantization) capable of withstanding the evolved forms of attack. Each chapter is divided into sections, first providing an introduction and high-level summary for those who wish to understand the concepts without wading through technical explanations, and then presenting concrete examples and greater detail for those who want to write their own programs. This combination of practicality and theory allows programmers and system designers to not only implement tried and true encryption procedures, but also consider probable future developments in their designs, thus fulfilling the need for preemptive caution that is becoming ever more explicit as the transference of digital media escalates. Includes 5 completely new chapters that delineate the most current and sophisticated cryptographic algorithms, allowing readers to protect their information against even the

most evolved electronic attacks Conceptual tutelage in conjunction with detailed mathematical directives allows the reader to not only understand encryption procedures, but also to write programs which anticipate future security developments in their design

Computer Security

This book constitutes the thoroughly refereed postproceedings of the 4th International Conference on Security in Communication Networks, SCN 2004, held in Amalfi, Italy in September 2004. The 25 revised full papers presented together with an invited paper were carefully selected during two rounds of reviewing and improvement. The papers are organized in topical sections on reduction of security and primitives, digital signature schemes, anonymity and privacy, authentication and identification, zero knowledge, public key cryptosystems, distributed cryptography, cryptanalysis of public key crypto systems, cryptanalysis, email security, and key distribution and feedback shift registers.

Story-Based Inquiry: A Manual for Investigative Journalists

Learn about cryptography and cryptocurrencies, so you can build highly secure, decentralized applications and conduct trusted in-app transactions. Key Features Get to grips with the underlying technical principles and implementations of blockchain Build powerful applications using

Ethereum to secure transactions and create smart contracts Explore cryptography, mine cryptocurrencies, and solve scalability issues with this comprehensive guide Book Description A blockchain is a distributed ledger that is replicated across multiple nodes and enables immutable, transparent and cryptographically secure record-keeping of transactions. The blockchain technology is the backbone of cryptocurrencies, and it has applications in finance, government, media and almost all other industries. Mastering Blockchain, Second Edition has been thoroughly updated and revised to provide a detailed description of this leading technology and its implementation in the real world. This book begins with the technical foundations of blockchain technology, teaching you the fundamentals of distributed systems, cryptography and how it keeps data secure. You will learn about the mechanisms behind cryptocurrencies and how to develop applications using Ethereum, a decentralized virtual machine. You will also explore different other blockchain solutions and get an introduction to business blockchain frameworks under Hyperledger, a collaborative effort for the advancement of blockchain technologies hosted by the Linux Foundation. You will also be shown how to implement blockchain solutions beyond currencies, Internet of Things with blockchain, blockchain scalability, and the future scope of this fascinating and powerful technology. What you will learn Master the theoretical and technical foundations of the blockchain technology Understand the concept of decentralization, its impact, and its relationship with blockchain technology Master how cryptography is used to secure data - with practical examples Grasp

the inner workings of blockchain and the mechanisms behind bitcoin and alternative cryptocurrencies Understand the theoretical foundations of smart contracts Learn how Ethereum blockchain works and how to develop decentralized applications using Solidity and relevant development frameworks Identify and examine applications of the blockchain technology - beyond currencies Investigate alternative blockchain solutions including Hyperledger, Corda, and many more Explore research topics and the future scope of blockchain technology Who this book is for This book will appeal to those who wish to build fast, highly secure, transactional applications. It targets people who are familiar with the concept of blockchain and are comfortable with a programming language.

Introduction to Data Compression

Python Cookbook

Invent Your Own Computer Games with Python will teach you how to make computer games using the popular Python programming language—even if you've never programmed before! Begin by building classic games like Hangman, Guess the Number, and Tic-Tac-Toe, and then work your way up to more advanced games, like a text-based treasure hunting game and an animated collision-dodging game with sound effects. Along the way, you'll learn key programming and math concepts that will help you take your game programming to the next level. Learn

how to: *Combine loops, variables, and flow control statements into real working programs *Choose the right data structures for the job, such as lists, dictionaries, and tuples *Add graphics and animation to your games with the pygame module *Handle keyboard and mouse input *Program simple artificial intelligence so you can play against the computer *Use cryptography to convert text messages into secret code *Debug your programs and find common errors As you work through each game, you'll build a solid foundation in Python and an understanding of computer science fundamentals. What new game will you create with the power of Python? The projects in this book are compatible with Python 3.

Mastering Blockchain

For introductory courses in IT Security. A strong business focus through a solid technical presentation of security tools. Boyle/Panko provides a strong business focus along with a solid technical understanding of security tools. This text gives students the IT security skills they need for the workplace. This edition is more business focused and contains additional hands-on projects, coverage of wireless and data security, and case studies.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION