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OBD - PATRICK CARNEY

Ever since humans first began to communicate, we've had secrets to keep — secrets of state, war, business, or the heart. From the moment the first secret message was sent, others were busy trying to decipher it. By rearranging, substituting, or transposing symbols, any message can be encoded or decoded — if you know how. *Secrets of Making and Breaking Codes* is a practical field manual designed to teach you the basic mechanics of enciphering and deciphering communications. The author has used his extensive knowledge of and experience in electronic communications and languages — as well as his decades of fascination with secret codes — to demystify the field of cryptology. Hamilton Nickels uses plain, uncomplicated English and simple, workable systems that rely on neither advanced mathematics, nor on ethereal philosophies. This is the only hands-on guide to both the simplest cipher schemes — that need little more than scratch paper and a pencil to crack — as well as more sophisticated codes that use one-time code books, pocket calculators, and the most advanced computer-based systems used by the military and diplomatic corps of most governments. Letting the wrong eyes see a secret message can often make the difference between victory and defeat, success and failure, life and death. *Secrets of Making and Breaking Codes* will make mastering codes easier.

Children enjoy making and sending secret messages. Secret message making, called cryptography, has become much more interesting with the advent of computers and the Internet. It's interesting to learn the basics and understand what's happening "under the hood" of cryptographic applications. This book has a spectrum of content that's interesting to children of all ages. It gives instructions on how to encode messages in a variety of simple and complex ways. Children can create messages using traditional ciphers, some used for thousands of years. Messages can be coded through conventional techniques, such as Morse Code, semaphores, and Braille, but messages can be encoded also as music, pigs and flowers. Advanced cryptography uses a lot of mathematics, but this book shields the younger readers from most of the math. However, a few interesting number games are included, and ways to create art from words and phrases.

This book teaches students how to analyze patterns through cryptography. Illustrates and explains how use a cipher to encrypt and decrypt simple substitution ciphers, poly-alphabetic ciphers and transposition ciphers. Includes famous examples of encrypted messages about and by figures like Julius Caesar and Queen Elizabeth I.

National Bestseller NPR Best Book of the Year "Not all superheroes wear capes, and Elizebeth Smith Friedman should be the subject of a future *Wonder Woman* movie." —The New York Times
Joining the ranks of *Hidden Figures* and *In the Garden of Beasts*, the incredible true story of the greatest codebreaking duo that ever lived, an American woman and her husband who invented the modern science of cryptology together and used it to confront the evils of their time, solving puzzles that unmasked Nazi spies and helped win World War II. In 1916, at the height of World War I, brilliant Shakespeare expert Elizebeth Smith went to work for an eccentric tycoon on his estate outside Chicago. The tycoon had close ties to the U.S. government, and he soon asked Elizebeth to apply her language skills to an exciting new venture: code-breaking. There she met the man who would become her husband, groundbreaking cryptologist William Friedman. Though she and Friedman are in many ways the "Adam and Eve" of the NSA, Elizebeth's story, incredibly, has never been told. In *The Woman Who Smashed Codes*, Jason Fagone chronicles the life of this extraordinary woman, who played an integral role in our nation's history for forty years. After World War I, Smith used her talents to catch gangsters and smugglers during Prohibition, then accepted a covert mission to discover and expose Nazi spy rings that were spreading like wildfire across South America, advancing ever closer to the United States. As World War II raged, Elizebeth fought a highly classified battle of wits against Hitler's Reich, cracking multiple versions of the Enigma machine used by German spies. Meanwhile, inside an Army vault in Washington, William worked furiously to break Purple, the Japanese version of Enigma—and eventually succeeded, at a terrible cost to his personal life. Fagone unveils America's code-breaking history through the prism of Smith's life, bringing into focus the unforgettable events and colorful personalities that would help shape modern intelligence. Blending the lively pace and compelling detail that are the hallmarks of Erik Larson's bestsellers with the atmosphere and intensity of *The Imitation Game*, *The Woman Who Smashed Codes* is page-turning popular history at its finest.

Simply and clearly written book, filled with cartoons and easy-to-follow instructions, tells youngsters 8 and up how to break 6 different

types of coded messages. Examples and solutions.

Adventure, danger, and a thrilling global mission await 12-year-old Cruz Coronado as he joins an elite school for explorers. Cruz leaves his tranquil home in Hawaii to join 23 talented kids from around the globe to train at the Explorer Academy with the world's leading scientists to become the next generation of great explorers. But for Cruz, there's more at stake. No sooner has he arrived at the Academy than he discovers that his family has a mysterious past with the organization that could jeopardize his future. In the midst of codebreaking and cool classes, new friends and augmented reality expeditions, Cruz must tackle the biggest question of all: Who is out to get him, and why? Readers can get in on the excitement with puzzles and codes embedded throughout.

Presents history, trivia, and code-breaking tales in a guide book to the world of secret writing that includes examples of a variety of codes and ciphers.

A TV tie-in edition of *The Code Book* filmed as a prime-time five-part Channel 4 series on the history of codes and code-breaking and presented by the author. This book, which accompanies the major Channel 4 series, brings to life the hidden history of codes and code breaking. Since the birth of writing, there has also been the need for secrecy. The story of codes is the story of the brilliant men and women who used mathematics, linguistics, machines, computers, gut instinct, logic and detective work to encrypt and break these secret messages and the effect their work has had on history.

The fast and easy way to crack codes and cryptograms Did you love Dan Brown's *The Lost Symbol*? Are you fascinated by secret codes and deciphering lost history? *Cracking Codes and Cryptograms For Dummies* shows you how to think like a symbologist to uncover mysteries and history by solving cryptograms and cracking codes that relate to Freemasonry, the Knights Templar, the Illuminati, and other secret societies and conspiracy theories. You'll get easy-to-follow instructions for solving everything from the simplest puzzles to fiendishly difficult ciphers using secret codes and lost symbols. Over 350 handcrafted cryptograms and ciphers of varying types Tips and tricks for cracking even the toughest code Sutherland is a syndicated puzzle author; Koltko-Rivera is an expert on the major symbols and ceremonies of Freemasonry With the helpful information in this friendly guide, you'll be unveiling mysteries and shedding light on history in no time!

I found it a delight to read. The author is not trying to write yet another book on the history of computer developments but rather to show that those developments rely on a long history of humans creating solutions to problems that arose as they became more and more sophisticated in their treatment of concepts of information and its manipulation. In many ways it resembles a work of philosophy more than a technical history, but relies on explaining that technical history to make his points. Michael R. Williams, Department of Computer Sciences, University of Calgary The idea that the digital age has revolutionized our day-to-day experience of the world is nothing new, and has been amply recognized by cultural historians. In contrast, Stephen Robertson's *BC: Before Computers* is a work which questions the idea that the mid-twentieth century saw a single moment of rupture. It is about all the things that we had to learn, invent, and understand – all the ways we had to evolve our thinking – before we could enter the information technology revolution of the second half of the twentieth century. Its focus ranges from the beginnings of data processing, right back to such originary forms of human technology as the development of writing systems, gathering a whole history of revolutionary moments in the development of information technologies into a single, although not linear narrative. Treading the line between philosophy and technical history, Robertson draws on his extensive technical knowledge to produce a text which is both thought-provoking and accessible to a wide range of readers. The book is wide in scope, exploring the development of technologies in such diverse areas as cryptography, visual art and music, and the postal system. Through all this, it does not simply aim to tell the story of computer developments but to show that those developments rely on a long history of humans creating technologies for increasingly sophisticated methods of manipulating information. Through a clear structure and engaging style, it brings together a wealth of informative and conceptual explorations into the history of human technologies, and avoids assumptions about any prior knowledge on the part of the reader. As such the expert and the general reader alike will find it of interest.

In his first book since the bestselling *Fermat's Enigma*, Simon Singh offers the first sweeping history of encryption, tracing its evolution and revealing the dramatic effects codes have had on wars, nations, and individual lives. From Mary, Queen of Scots,

trapped by her own code, to the Navajo Code Talkers who helped the Allies win World War II, to the incredible (and incredibly simple) logistical breakthrough that made Internet commerce secure, *The Code Book* tells the story of the most powerful intellectual weapon ever known: secrecy. Throughout the text are clear technical and mathematical explanations, and portraits of the remarkable personalities who wrote and broke the world's most difficult codes. Accessible, compelling, and remarkably far-reaching, this book will forever alter your view of history and what drives it. It will also make you wonder how private that e-mail you just sent really is.

"As gripping as a good thriller." --The Washington Post
Unpack the science of secrecy and discover the methods behind cryptography--the encoding and decoding of information--in this clear and easy-to-understand young adult adaptation of the national best-seller that's perfect for this age of WikiLeaks, the Sony hack, and other events that reveal the extent to which our technology is never quite as secure as we want to believe. Coders and codebreakers alike will be fascinated by history's most mesmerizing stories of intrigue and cunning--from Julius Caesar and his Caesar cipher to the Allies' use of the Enigma machine to decode German messages during World War II. Accessible, compelling, and timely, *The Code Book* is sure to make readers see the past--and the future--in a whole new way. "Singh's power of explaining complex ideas is as dazzling as ever." --The Guardian

The award-winning New York Times bestseller about the American women who secretly served as codebreakers during World War II--a "prodigiously researched and engrossing" (New York Times) book that "shines a light on a hidden chapter of American history" (Denver Post). Recruited by the U.S. Army and Navy from small towns and elite colleges, more than ten thousand women served as codebreakers during World War II. While their brothers and boyfriends took up arms, these women moved to Washington and learned the meticulous work of code-breaking. Their efforts shortened the war, saved countless lives, and gave them access to careers previously denied to them. A strict vow of secrecy nearly erased their efforts from history; now, through dazzling research and interviews with surviving code girls, bestselling author Liza Mundy brings to life this riveting and vital story of American courage, service, and scientific accomplishment.

'The best book on codebreaking I have read', SIR DERMOT TURING 'Brings back the joy I felt when I first read about these things as a kid', PHIL ZIMMERMANN 'This is at last the single book on codebreaking that you must have. If you are not yet addicted to cryptography, this book will get you addicted. Read, enjoy, and test yourself on history's great still-unbroken messages!' JARED DIMOND is the Pulitzer Prize-winning author of *Guns, Germs, and Steel*; *Collapse*; and other international bestsellers 'This is THE book about codebreaking. Very concise, very inclusive and easy to read', ED SCHEIDT 'Riveting', MIKE GODWIN 'Approachable and compelling', GLEN MIRANKER This practical guide to breaking codes and solving cryptograms by two world experts, Elonka Dunin and Klaus Schmeih, describes the most common encryption techniques along with methods to detect and break them. It fills a gap left by outdated or very basic-level books. This guide also covers many unsolved messages. The Zodiac Killer sent four encrypted messages to the police. One was solved; the other three were not. Beatrix Potter's diary and the Voynich Manuscript were both encrypted - to date, only one of the two has been deciphered. The breaking of the so-called Zimmerman Telegram during the First World War changed the course of history. Several encrypted wartime military messages remain unsolved to this day. Tens of thousands of other encrypted messages, ranging from simple notes created by children to encrypted postcards and diaries in people's attics, are known to exist. Breaking these cryptograms fascinates people all over the world, and often gives people insight into the lives of their ancestors. Geocachers, computer gamers and puzzle fans also require codebreaking skills. This is a book both for the growing number of enthusiasts obsessed with real-world mysteries, and also fans of more challenging puzzle books. Many people are obsessed with trying to solve famous crypto mysteries, including members of the Kryptos community (led by Elonka Dunin) trying to solve a decades-old cryptogram on a sculpture at the centre of CIA Headquarters; readers of the novels of Dan Brown as well as Elonka Dunin's *The Mammoth Book of Secret Code Puzzles* (UK)/*The Mammoth Book of Secret Codes and Cryptograms* (US); historians who regularly encounter encrypted documents; perplexed family members who discover an encrypted postcard or diary in an ancestor's effects; law-enforcement agents who are confronted by encrypted messages, which also happens more often than might be supposed; members of the American Cryptogram Association (ACA); geocachers (many caches involve a cryp-

to puzzle); puzzle fans; and computer gamers (many games feature encryption puzzles). The book's focus is very much on breaking pencil-and-paper, or manual, encryption methods. Its focus is also largely on historical encryption. Although manual encryption has lost much of its importance due to computer technology, many people are still interested in deciphering messages of this kind.

In *Breaking the Romans Code*, cryptographer Michael Wood uses the Dead Sea Scrolls to solve a two thousand year old puzzle. The Dead Sea Scrolls were discovered in eleven different caves. All scrolls were immediately published except for the contents of one cave - cave number four. The scrolls found in cave four were guarded under a strict secrecy rule for decades after their discovery. The cave four scrolls were finally published in 1991 by force, not willingly. The public was told that these scrolls took so long to publish because they were extra fragile and therefore it took thirty years to translate them. However scholars had finished making concordances of the cave four scrolls by 1960 and they had to translate the scrolls to make the concordances. So the official story was a ruse. The concordances document that the scrolls were translated by 1960 yet remained unpublished for thirty years afterwards. Cryptographer Michael Wood was curious what earth shattering secrets the cave four scrolls must contain for them to have been suppressed for so long. And he recently solved the Granddaddy of the cave four puzzles - the Romans Code. The apostle Paul's letter to the Romans is the cornerstone of modern Christianity. Correct understanding of this biblical book hinges on knowing the precise constitution of "the Works of the Law" mentioned in the letter. One of the cave four scrolls was entitled "Some Works of the Law." This was the first time the phrase "Works of the Law" was seen outside Paul's letters, and Michael Wood had a hunch that this scroll held the key to finally deciphering it. In *Breaking the Romans Code*, cryptographer Michael Wood documents the stunning solution to the deciphered "Works of the Law." In doing so, *Breaking the Romans Code* empirically documents that Orthodox Christianity has misunderstood this pivotal book for more than 1,500 years. The Romans Code has finally been broken.

The *Secret Code Book* is a short introduction to substitution ciphers. The chapters ease young readers into the concept of rotation ciphers and work their way up to the Vigenere cipher. Along the way, readers will also learn about geometric approaches to secret codes such as the Pigpen cipher. As a bonus, there is a brief description of frequency analysis and how it is used to crack secret codes. In addition, this book actively challenges readers with practice missions where answers are listed in the back. Also, there is a cut-out rotation template that is provided to make your very own cipher disk! After reading this book, you will have all the basic tools needed to create secret messages.

Find out how codes have been used since ancient times. Then have a go at breaking some secret codes!

A timely reference work in the light of the rise of Wikileaks, GCHQ and recent political hacking activity. Codes win wars, conceal state secrets, protect privacy, secure banks and transmit messages. Through 45 of the world's most influential codes and ciphers, *DECIPHER* presents a compelling insight into the art and science of cryptography. Structured chronologically, *DECIPHER* provides practical tools for understanding and using these fascinating codes and ciphers. It features a diverse range of codes, including the Caesar shift cipher, Easter Island's bewildering Rongorongo and the famous Enigma code at Bletchley Park. *DECIPHER* also includes features on famous codebreakers of history such as Alan Turing, Jonas Nordby and Auguste Kerckhoffs, providing a comprehensive overview to this beguiling, secretive world.

"The author, Bengt Beckman, for many years was the head of the cryptanalysis department of the Swedish signal intelligence agency. He has crafted a book that a reader at any level of mathematical sophistication will thoroughly enjoy. It will appeal to a broad audience of readers, from historians and biography buffs to mathematicians to anyone with a passing interest in cryptology and cryptanalysis."--BOOK JACKET.

As an instructor at the University of Tulsa, Christopher Swenson could find no relevant text for teaching modern cryptanalysis?so he wrote his own. This is the first book that brings the study of cryptanalysis into the 21st century. Swenson provides a foundation in traditional cryptanalysis, examines ciphers based on number theory, explores block ciphers, and teaches the basis of all modern cryptanalysis: linear and differential cryptanalysis. This time-honored weapon of warfare has become a key piece of artillery in the battle for information security.

Join the Cryptokids as they apply basic mathematics to make and break secret codes. This book has many hands-on activities that have been tested in both classrooms and informal settings. Classic coding methods are discussed, such as Caesar, substitution, Vigenere, and multiplicative ciphers as well as the modern RSA. Math topics covered include: - Addition and Subtraction with, negative numbers, decimals, and percentages - Factorization - Modular Arithmetic - Exponentiation - Prime Numbers - Frequency Analysis. The accompanying workbook, *The Cryptoclub Workbook: Using Mathematics to Make and Break Secret Codes* provides stu-

dents with problems related to each section to help them master the concepts introduced throughout the book. A PDF version of the workbook is available at no charge on the download tab, a printed workbook is available for \$19.95 (K00701). The teacher manual can be requested from the publisher by contacting the Academic Sales Manager, Susie Carlisle

"Discusses different methods for breaking secret codes"--Provided by publisher.

The New York Times bestselling author of *Dark Invasion* and *The Last Goodnight* once again illuminates the lives of little-known individuals who played a significant role in America's history as he chronicles the incredible true story of a critical, recently declassified counterintelligence mission and two remarkable agents whose story has been called "the greatest secret of the Cold War." In 1946, genius linguist and codebreaker Meredith Gardner discovered that the KGB was running an extensive network of strategically placed spies inside the United States, whose goal was to infiltrate American intelligence and steal the nation's military and atomic secrets. Over the course of the next decade, he and young FBI supervisor Bob Lamphere worked together on Venona, a top-secret mission to uncover the Soviet agents and protect the Holy Grail of Cold War espionage—the atomic bomb. Opposites in nearly every way, Lamphere and Gardner relentlessly followed a trail of clues that helped them identify and take down these Soviet agents one by one, including Julius and Ethel Rosenberg. But at the center of this spy ring, seemingly beyond the American agents' grasp, was the mysterious master spy who pulled the strings of the KGB's extensive campaign, dubbed Operation Enormoz by Russian Intelligence headquarters. Lamphere and Gardner began to suspect that a mole buried deep in the American intelligence community was feeding Moscow Center information on Venona. They raced to unmask the traitor and prevent the Soviets from fulfilling Soviet Premier Nikita Khrushchev's threat: "We shall bury you!" A breathtaking chapter of American history and a page-turning mystery that plays out against the tense, life-and-death gamesmanship of the Cold War, this twisting thriller begins at the end of World War II and leads all the way to the execution of the Rosenbergs—a result that haunted both Gardner and Lamphere to the end of their lives.

A brief history of cryptography also shows how to break simple ciphers by analyzing the patterns used to create them.

How to make it, break it, hack it, crack it. The secret history of codes and code breaking. Simon Singh's best-selling title *The Code Book* now re-issued for the young-adult market.

Explains various methods used in cryptography and presents examples to help readers in breaking secret codes

People have been writing in code for hundreds of years. Breaking that code has resulted in many military victories and broken relationships. Learning how to break code can be a fun puzzle activity and lead to a life time of learning. It can also teach the basics of algorithms and computer coding. In this introductory book, kids will learn the most basic of codes and ciphers. 30 introductory puzzles are included for them to crack. Additional, skills that they can practice on their own are included as a bonus. Outside equipment will be needed to fully utilize this book. At a minimum, a pencil will be needed, but other items are recommended within the book. If you have bought the ebook, you will additionally need paper, preferable lined or graph paper. This is the first book in a series to get your child interested in cryptography and on the road to becoming skilled at puzzles and coding. The introductory puzzles are aimed at children ages 8-13. More advanced puzzles are included and may require some adult assistant or be frustrating for younger children. These codes require a good grasp of the alphabet and word recognition. They will not be able to be solved by younger children who cannot read well yet without assistance. Most codes are inspirational or contain snippets of the history of cryptography.

Now the most used textbook for introductory cryptography courses in both mathematics and computer science, the Third Edition builds upon previous editions by offering several new sections, topics, and exercises. The authors present the core principles of modern cryptography, with emphasis on formal definitions, rigorous proofs of security.

Provides young adults with a review of cryptography, its evolution over time, and its purpose throughout history from the era of Julius Caesar to the modern day.

This unique book explains the basic issues of classical and modern cryptography, and provides a self contained essential mathematical background in number theory, abstract algebra, and probability—with surveys of relevant parts of complexity theory and other things. A user-friendly, down-to-earth tone presents concretely motivated introductions to these topics. More detailed chapter topics include simple ciphers; applying ideas from probability; substitutions, transpositions, permutations; modern symmetric ciphers; the integers; prime numbers; powers and roots modulo primes; powers and roots for composite moduli; weakly multiplicative functions; quadratic symbols, quadratic reciprocity; pseudoprimes; groups; sketches of protocols; rings, fields, polynomials; cyclotomic polynomials, primitive roots; pseudo-random number generators; proofs concerning pseudoprimality; factorization attacks finite fields; and elliptic curves. For personnel in com-

puter security, system administration, and information systems.

Don't let your secrets fall into enemy hands With this handbook, you'll learn everything you need to know in order to create and break over 50 different codes and ciphers, using mobile phones, crossword puzzles, lemon juice and other ingenious methods. Children will have lots of fun sending secret messages to their friends and trying to decipher their responses. Short and entertaining activities for each code enable the young super-spy to master the rules of the code before trying it out for real.

Codes can carry big secrets! Throughout history, lots of good guys and lots of bad guys have used codes to keep their messages under wraps. This fun and flippable nonfiction features stories of hidden treasures, war-time maneuverings, and contemporary hacking as well as explaining the mechanics behind the codes in accessible and kid friendly forms. Sidebars call out activities that invite the reader to try their own hand at cracking and crafting their own secret messages. This is the launch of an exciting new series that invites readers into a STEM topic through compelling historical anecdotes, scientific backup, and DIY projects.

Challenges the reader to reveal quotations from prominent people in history and fiction by using a collection of coded alphabets devised by actual historical figures, including Hildegard of Bingen, Edgar Allen Poe, and Hæléène Smith.

Learn how to program in Python while making and breaking ciphers—algorithms used to create and send secret messages! After a crash course in Python programming basics, you'll learn to make, test, and hack programs that encrypt text with classical ciphers like the transposition cipher and Vigenere cipher. You'll begin with simple programs for the reverse and Caesar ciphers and then work your way up to public key cryptography, the type of encryption used to secure today's online transactions, including digital signatures, email, and Bitcoin. Each program includes the full code and a line-by-line explanation of how things work. By the end of the book, you'll have learned how to code in Python and you'll have the clever programs to prove it! You'll also learn how to: - Combine loops, variables, and flow control statements into real working programs - Use dictionary files to instantly detect whether decrypted messages are valid English or gibberish - Create test programs to make sure that your code encrypts and decrypts correctly - Code (and hack!) a working example of the affine cipher, which uses modular arithmetic to encrypt a message - Break ciphers with techniques such as brute-force and frequency analysis There's no better way to learn to code than to play with real programs. *Cracking Codes with Python* makes the learning fun!

A "must-read" (Vincent Rijmen) nuts-and-bolts explanation of cryptography from a leading expert in information security. Despite its reputation as a language only of spies and hackers, cryptography plays a critical role in our everyday lives. Though often invisible, it underpins the security of our mobile phone calls, credit card payments, web searches, internet messaging, and cryptocurrencies—in short, everything we do online. Increasingly, it also runs in the background of our smart refrigerators, thermostats, electronic car keys, and even the cars themselves. As our daily devices get smarter, cyberspace—home to all the networks that connect them—grows. Broadly defined as a set of tools for establishing security in this expanding cyberspace, cryptography enables us to protect and share our information. Understanding the basics of cryptography is the key to recognizing the significance of the security technologies we encounter every day, which will then help us respond to them. What are the implications of connecting to an unprotected Wi-Fi network? Is it really so important to have different passwords for different accounts? Is it safe to submit sensitive personal information to a given app, or to convert money to bitcoin? In clear, concise writing, information security expert Keith Martin answers all these questions and more, revealing the many crucial ways we all depend on cryptographic technology. He demystifies its controversial applications and the nuances behind alarming headlines about data breaches at banks, credit bureaus, and online retailers. We learn, for example, how encryption can hamper criminal investigations and obstruct national security efforts, and how increasingly frequent ransomware attacks put personal information at risk. Yet we also learn why responding to these threats by restricting the use of cryptography can itself be problematic. Essential reading for anyone with a password, *Cryptography* offers a profound perspective on personal security, online and off.

If you've ever made a secure purchase with your credit card over the Internet, then you have seen cryptography, or "crypto", in action. From Stephen Levy—the author who made "hackers" a household word—comes this account of a revolution that is already affecting every citizen in the twenty-first century. *Crypto* tells the inside story of how a group of "crypto rebels"—nerds and visionaries turned freedom fighters—teamed up with corporate interests to beat Big Brother and ensure our privacy on the Internet. Levy's history of one of the most controversial and important topics of the digital age reads like the best futuristic fiction.

This book reveals the historical context and the evolution of the technically complex Allied Signals Intelligence (Sigint) activity against Japan from 1920 to 1945. It traces the all-important genesis and development of the cryptanalytic techniques used to

break the main Japanese Navy code (JN-25) and the Japanese Army's Water Transport Code during WWII. This is the first book to describe, explain and analyze the code breaking techniques developed and used to provide this intelligence, thus closing the sole remaining gap in the published accounts of the Pacific War. The authors also explore the organization of cryptographic teams and issues of security, censorship, and leaks. Correcting gaps in previ-

ous research, this book illustrates how Sigint remained crucial to Allied planning throughout the war. It helped direct the advance to the Philippines from New Guinea, the sea battles and the submarine onslaught on merchant shipping. Written by well-known authorities on the history of cryptography and mathematics, Code Breaking in the Pacific is designed for cryptologists, mathemati-

cians and researchers working in communications security. Advanced-level students interested in cryptology, the history of the Pacific War, mathematics or the history of computing will also find this book a valuable resource.

How to make it, break it, hack it, crack it. The secret history of codes and code breaking. Simon Singh's best-selling title The Code Book now re-issued for the young-adult market.