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The Secret of the Fairies: A Geronimo Stilton Adventure (Thea Stilton: Special Edition)
Elementary Trigonometry
Tools and Algorithms for the Construction and Analysis of Systems
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The World of the Vikings
Software Engineering and Formal Methods
The Basics of Bitcoins and Blockchains
Cryptoassets: The Innovative Investor's Guide to Bitcoin and Beyond

Silica Stories

You may have watched hundreds of episodes of The Simpsons (and its sister show Futurama) without ever realising that they contain enough maths to form an entire university course. In *The Simpsons and Their Mathematical Secrets*, Simon Singh explains how the brilliant writers, some of the mathematicians, have smuggled in mathematical jokes throughout the cartoon's twenty-five year history, exploring everything from Mersenne primes, from Euler's equation to the unsolved riddle of P vs. NP, from perfect numbers to narcissistic numbers, and much more. With wit, clarity and a true fan's zeal, Singh analyses such memorable episodes as 'Bart the Genius' and 'Homer3' to offer an entirely new insight into the most successful show in television history.

Cassandra: The Definitive Guide

This book constitutes the refereed proceedings of the 5th International Workshop on Motion in Games, held in Rennes, France, in November 2012. The 23 revised full papers presented together with 9 posters and 5 extended abstracts were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on planning, interaction, physics, perception, behavior, virtual humans, locomotion, and motion capture.

Coot Club

2015 version published on 12/29/14. Need a good way to remember that the word "prodigal" means "wasteful"? Just think ofprada gal - a girl who spends all of her money on designer clothes. Brian McElroy (Harvard, '02) and Vince Kotchian (Boston College, '97), two of San Diego's most sought after test-prep tutors, provide a series of clever, unconventional, and funny memory devices aimed toward helping you to improve your vocabulary and remember words long-term so that you don't ever forget their meanings. Brian and Vince, combined, have been tutoring the test for over 20 years. They have analyzed all available official GRE tests to select the words that appear in this book. The vocabulary words in this book are best suited for students at a 9th-grade level or above. The words in this edition are specifically targeted toward the GRE exam, but they are also helpful for students who are preparing for other standardized tests such as the SAT, ACT, ISEE, SSAT, GMAT, LSAT or MCAT, or anyone at any age who simply wants to improve his/her knowledge of English vocabulary. Disclaimer: a few of our mnemonics might not be appropriate for kids - some contain adult language or situations. Over 950 of the words in this book appear in our other mnemonics book,SAT Vocab Capacity. So if you're easily offended, the SAT version might be a better choice. Why This Book Is Different If you're studying for the GRE, SAT, or for any other standardized test that measures your vocabulary, you may be feeling a little bit anxious - especially if you've taken a practice test and encountered words you didn't know (or maybe never even saw before)! Whether you have seven days

or seven months to prepare for the test, you're going to want to boost your vocabulary. But it's not that simple – you've got to remember the words you learn. And on many GRE text completion and sentence equivalence questions, getting the right answer comes down to knowing the precise definition of the words. You could make vocabulary flashcards. You could look up words you don't know. You could read a book with lots of big words. But unless you give your brain a way to hold on to the words you learn, it will probably have a harder time remembering them when they appear on the test. That's the problem with most vocabulary books: the definitions and sentences in the books aren't especially memorable. That's where this book is different. We've not only clearly defined the words but we've also created sentences designed to help you remember the words through a variety of associations - using mnemonics. Mnemonic Examples A mnemonic is just a memory device. It works by creating a link in your brain to something else, so that recall of one thing helps recall of the other. This can be done in many ways – but the strongest links are through senses, emotions, rhymes, and patterns. Consider this example: Quash (verb): to completely stop from happening. Think: squash. The best way to quash an invasion of ants in your kitchen is simple: squash them. Now your brain has a link from the word quash (which it may not have known) to the word squash (which it probably knows). Both words sound and look the same, so it's easy to create a visual and aural link. If you picture someone squashing ants (and maybe get grossed out), you also have another visual link and an emotional link. Here's another example: Eschew (verb): to avoid. Think: ah-

choo! Eschew people who say "ah-choo!" unless you want to catch their colds. The word eschew sounds similar to a sneeze (ah-choo!), so your brain will now link the two sounds. If you picture yourself avoiding someone who is about to sneeze in your face, even better! Again, the more connections you make in your brain to the new word, th

Digital Gold

The four-volume set LNCS 11244, 11245, 11246, and 11247 constitutes the refereed proceedings of the 8th International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, ISoLA 2018, held in Limassol, Cyprus, in October/November 2018. The papers presented were carefully reviewed and selected for inclusion in the proceedings. Each volume focusses on an individual topic with topical section headings within the volume: Part I, Modeling: Towards a unified view of modeling and programming; X-by-construction, STRESS 2018. Part II, Verification: A broader view on verification: from static to runtime and back; evaluating tools for software verification; statistical model checking; RERS 2018; doctoral symposium. Part III, Distributed Systems: rigorous engineering of collective adaptive systems; verification and validation of distributed systems; and cyber-physical systems engineering. Part IV, Industrial Practice: runtime verification from the theory to the industry practice; formal methods in industrial practice - bridging the gap; reliable smart contracts:

state-of-the-art, applications, challenges and future directions; and industrial day.

My Notre Dame

NASA Formal Methods

New York Times bestselling author Gena Showalter presents a classic Lords of the Underworld tale about a warrior trapped by darkness and the woman determined to save him. Having endured weeks of torture in the bowels of hell, Kane wants nothing to do with his beautiful rescuer, Josephina Aisling. The half-Fae female threatens to awaken the demon of Disaster inside him—a beast he's determined to kill, no matter the price. Josephina is hunted by a brutal enemy—her royal family—and Kane is her only source of protection. He's also the only male to ever set her aflame, and even he succumbs to the heat. But as they navigate the treacherous world of the Fae, they are forced to make a choice: live apart...or die together. Originally published in 2013

Operational Research by Example

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of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Shadow Elite

This book constitutes the refereed proceedings of the 16th International Conference on Software Engineering and Formal Methods, SEFM 2018, held as part of STAF 2018, in Toulouse, France, in June 2018. The 17 full papers presented in this book were carefully reviewed and selected from 58 submissions. The papers deal with a large range of topics in the following research areas: specification; concurrency; program analysis; model checking and runtime verification;

applications; and shape analysis and reuse.

Leveraging Applications of Formal Methods, Verification and Validation. Verification

The Safe Food Imperative

A magical world is in danger! The Thea Sisters are on their way. . . . Thea Stilton and the Thea Sisters are on an expedition to the fantastical Land of Erin. While they are searching for a missing friend, they learn that the land itself is in peril! The mouselets are ready to help. On their journey, they encounter fairies, pixies, and other magical creatures -- some helpful, but some out to trick them! Can the Thea Sisters save the Land of Erin before it's too late? It's an adventure full of mystery and friendship!

All the Pieces Matter

'Let fly jib sheet! Slack away main! Fenders out!' Dick and Dorothea – also known as The Ds – arrive in Norfolk all ready to learn how to sail. They couldn't hope for a better teacher than Tom Dudgeon. But Tom is in a spot of trouble. After seeing the

beastly Margoletta moored clean across the nests of his beloved coots, Tom set the motorcruiser adrift. Now the enemy have offered a bounty on his head. Can they save the birds' nest from almost certain destruction? Will they avoid being caught by the awful Hullabalooos? Only some brave friends and quick thinking stands between them and disaster Includes exclusive material: In 'The Backstory' you can test your knowledge of the book, learn about the adventurous author and get some handy facts about birds and boats. Vintage Children's Classics is a twenty-first century classics list aimed at 8-12 year olds and the adults in their lives. Discover timeless favourites from The Jungle Book and Alice's Adventures in Wonderland to modern classics such as The Boy in the Striped Pyjamas and The Curious Incident of the Dog in the Night-Time.

Cassandra: The Definitive Guide

This book constitutes the proceedings of the 5th International Symposium on Model-Based Safety and Assessment, IMBSA 2017, held in Trento, Italy, in September 2017. The 17 revised full papers presented were carefully reviewed and selected from 29 initial submissions. The papers are organized in topical sections on safety process; safety models and languages; fault detection and propagation; safety assessment in the automotive domain; and case studies.

The Simpsons and Their Mathematical Secrets

What could you do with data if scalability wasn't a problem? With this hands-on guide, you'll learn how Apache Cassandra handles hundreds of terabytes of data while remaining highly available across multiple data centers -- capabilities that have attracted Facebook, Twitter, and other data-intensive companies. Cassandra: The Definitive Guide provides the technical details and practical examples you need to assess this database management system and put it to work in a production environment. Author Eben Hewitt demonstrates the advantages of Cassandra's nonrelational design, and pays special attention to data modeling. If you're a developer, DBA, application architect, or manager looking to solve a database scaling issue or future-proof your application, this guide shows you how to harness Cassandra's speed and flexibility. Understand the tenets of Cassandra's column-oriented structure Learn how to write, update, and read Cassandra data Discover how to add or remove nodes from the cluster as your application requires Examine a working application that translates from a relational model to Cassandra's data model Use examples for writing clients in Java, Python, and C# Use the JMX interface to monitor a cluster's usage, memory patterns, and more Tune memory settings, data storage, and caching for better performance

Perspectives of System Informatics

This book presents an emerging rehabilitation program for improving the reading abilities of individuals with low vision who undergo therapy for visual impairment. Its interdisciplinary framework for visual training through reading skills development aligns its goals with those of special education programs and features anatomical and psychological background chapters, diverse perspectives on rehabilitation, and empirical supporting data. Program details span theoretical bases, strategies and planning, pedagogical considerations, use of assistive technologies, and assessment of client progress and program efficacy. And by locating rehabilitation in the psychosocial experience of visual disability, the program can be used as a means of building confidence and motivation, contributing to improved quality of life. Included in the coverage: Visual impairment and its impact on development. Rehabilitation of individuals with visual impairment in the Czech Republic. Innovative vision rehabilitation system: theoretical postulates, meanings, and objectives. Reading as a main objective of vision rehabilitation. Verification of effectiveness of the reading performance experimental rehabilitation program. Reading Rehabilitation for Individuals with Low Vision is an essential resource for researchers, clinicians/practitioners, and graduate students in varied fields such as cognitive psychology, rehabilitation, literacy, special education, child and school psychology, visual therapy, and public health.

Histories of Computing in Eastern Europe

Presents by subject the same titles that are listed by author and title in Forthcoming books.

British Books in Print

This report strengthens the economic case for increased public investment and more robust policy attention to food safety in low and middle income countries and provides guidance on ways to achieve significant, broad-based impact from such actions.

Harmony in Practice

"Views differ on bitcoin, but few doubt the transformative potential of Blockchain technology. The Truth Machine is the best book so far on what has happened and what may come along. It demands the attention of anyone concerned with our economic future." —Lawrence H. Summers, Charles W. Eliot University Professor and President Emeritus at Harvard, Former Treasury Secretary From Michael J. Casey and Paul Vigna, the authors of The Age of Cryptocurrency, comes the definitive work on the Internet's Next Big Thing: The Blockchain. Big banks have grown bigger and more entrenched. Privacy exists only until the next hack. Credit card fraud is a fact of life. Many of the "legacy systems" once designed to make

our lives easier and our economy more efficient are no longer up to the task. Yet there is a way past all this—a new kind of operating system with the potential to revolutionize vast swaths of our economy: the blockchain. In *The Truth Machine*, Michael J. Casey and Paul Vigna demystify the blockchain and explain why it can restore personal control over our data, assets, and identities; grant billions of excluded people access to the global economy; and shift the balance of power to revive society's faith in itself. They reveal the disruption it promises for industries including finance, tech, legal, and shipping. Casey and Vigna expose the challenge of replacing trusted (and not-so-trusted) institutions on which we've relied for centuries with a radical model that bypasses them. *The Truth Machine* reveals the empowerment possible when self-interested middlemen give way to the transparency of the blockchain, while highlighting the job losses, assertion of special interests, and threat to social cohesion that will accompany this shift. With the same balanced perspective they brought to *The Age of Cryptocurrency*, Casey and Vigna show why we all must care about the path that blockchain technology takes—moving humanity forward, not backward.

Reading Rehabilitation for Individuals with Low Vision

Bitcoin, the landmark digital money and financial technology, has spawned a global social movement with utopian ambitions. The notion of a new currency, maintained by the computers of users around the world, has been the butt of many jokes, but

that has not stopped it from growing into a technology worth billions of dollars, supported by the hordes of followers who have come to view it as the most important new idea since the creation of the Internet. Believers from Beijing to Buenos Aires see the potential for a financial system free from banks and governments, and a new global currency for the digital age. An unusual tale of group invention, *Digital Gold* tells the story of the colorful characters who have built Bitcoin, including a Finnish college student; an Argentinian millionaire; a Chinese entrepreneur; Tyler and Cameron Winklevoss; Bitcoin's elusive creator, Satoshi Nakamoto; and the founder of the Silk Road online drug market, Ross Ulbricht. With *Digital Gold*, New York Times reporter Nathaniel Popper offers a brilliant and engrossing account of this new technology. At each step of the way, Bitcoin has provided one of the most fascinating tests of how money works, who benefits from it, and what it might look like in the future.

The Darkest Craving

This book is Open Access under a CC BY licence. The LNCS 11427 and 11428 proceedings set constitutes the proceedings of the 25th International Conference on Tools and Algorithms for the Construction and Analysis of Systems, TACAS 2019, which took place in Prague, Czech Republic, in April 2019, held as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2019. The total of 42 full and 8 short tool demo papers presented in these volumes was

carefully reviewed and selected from 164 submissions. The papers are organized in topical sections as follows: Part I: SAT and SMT, SAT solving and theorem proving; verification and analysis; model checking; tool demo; and machine learning. Part II: concurrent and distributed systems; monitoring and runtime verification; hybrid and stochastic systems; synthesis; symbolic verification; and safety and fault-tolerant systems.

Unveiling Galaxies

It can feel like we're swimming in a sea of corruption. It's unclear who exactly is in charge and what role they play. The same influential people seem to reappear time after time in different professional guises, pressing their own agendas in one venue after another. According to award-winning public policy scholar and anthropologist Janine Wedel, these are the powerful "shadow elite," the main players in a vexing new system of power and influence. In this groundbreaking book, Wedel charts how this shadow elite, loyal only to their own, challenge both governments' rules of accountability and business codes of competition to accomplish their own goals. From the Harvard economists who helped privatize post-Soviet Russia and the neoconservatives who have helped privatize American foreign policy (culminating with the debacle that is Iraq) to the many private players who daily make public decisions without public input, these manipulators both grace the front pages and operate behind the scenes. Wherever they maneuver, they flout once-sacrosanct

boundaries between state and private. Profoundly original, *Shadow Elite* gives us the tools we need to recognize these powerful yet elusive players and comprehend the new system. Nothing less than our ability for self-government and our freedom are at stake.

Subject Guide to Forthcoming Books

Since its final episode aired in 2008, HBO's acclaimed crime drama *The Wire* has only become more popular and influential. The issues it tackled, from the failures of the drug war and criminal justice system to systemic bias in law enforcement and other social institutions, have become more urgent and central to the national conversation. The show's actors, such as Idris Elba, Dominic West, and Michael B. Jordan, have gone on to become major stars. Its creators and writers, including David Simon and Richard Price, have developed dedicated cult followings of their own. Universities use the show to teach everything from film theory to criminal justice to sociology. Politicians and activists reference it when discussing policy. When critics compile lists of the Greatest TV Shows of All Time, *The Wire* routinely appears near or at the top. But while there has been a great deal of critical analysis of the show and its themes, until now there has never been a definitive, behind-the-scenes take on how it came to be made. With unparalleled access to all the key actors and writers involved in its creation, Jonathan Abrams tells the astonishing, compelling, and complete account of *The Wire*, from its inception and

creation through its end and powerful legacy.

Motion in Games

The Age of Cryptocurrency

One for the keeper shelf! Rediscover the heart-stopping thrills of this classic romantic suspense, only from New York Times bestselling author Heather Graham. It was the most dangerous role of her career...and possibly the last. Playing a malicious diva on a popular daytime soap, actress Kelly Trent has garnered more than her fair share of hate mail. She doesn't believe anyone would really confuse her with her character, but when an accident on the set hits too close for the producers' comfort, Kelly is unceremoniously put on hiatus. At her agent's suggestion, she agrees to appear in a music video, thinking the time away filming in the Florida Keys might be just the thing to put her life in perspective. But with two left feet, Kelly only hopes dance instructor Doug O'Casey can work miracles. A former Miami cop, Doug still has a lawman's instinct for trouble, and the continued threats made against Kelly tell him that she is in danger. Now, as a deranged fan closes in, Doug realizes that someone close to Kelly wants more than her character killed off the show—someone wants her stone-cold dead. Originally published in

2005

Obscurity and Clarity in the Law

Do you know silica, the tetrahedra of silicon and oxygen constituting the crystals of New Agers and the desiccant in a box of new shoes? It's no mere mundane mineral. As chemically reacting silicate rocks, silica set off the chain of events known as the origin of life. As biomineralized opal, it is the cell wall, skeleton, spicules, and scales of organisms ornamenting numerous lobes of the tree of life. Cryptocrystalline silica made into stone tools helped drive the evolution of our hands and our capability for complex grammar, music, and mathematics. As quartz crystals, silica is impressively electric and ubiquitous in modern technology (think sonar, radios, telephones, ultrasound, and cheap but precise watches). Silica is inescapable when we take a drink or mow the lawn and it has already started to save the Earth from the carbon dioxide we're spewing into the atmosphere. This book tells these scientific tales and more, to give dear, modest silica its due.

Model-Based Safety and Assessment

A thought provoking study of the powerful impact of images in guiding astronomers' understanding of galaxies through time.

The Secret of the Fairies: A Geronimo Stilton Adventure (Thea Stilton: Special Edition)

This book constitutes the proceedings of the 10th International Symposium on NASA Formal Methods, NFM 2018, held in Newport News, VA, USA, in April 2018. The 24 full and 7 short papers presented in this volume were carefully reviewed and selected from 92 submissions. The papers focus on formal techniques and other approaches for software assurance, their theory, current capabilities and limitations, as well as their potential application to aerospace, robotics, and other NASA-relevant safety-critical systems during all stages of the software life-cycle.

Elementary Trigonometry

#1 Amazon New Release! – Understand Bitcoin, blockchains, and cryptocurrency with this clear and comprehensible guide Learn the history and basics of cryptocurrency and blockchains: There's a lot of information on cryptocurrency and blockchains out there. But, for the uninitiated, most of this information can be indecipherable. The Basics of Bitcoins and Blockchains aims to provide an accessible guide to this new currency and the revolutionary technology that powers it. Bitcoin, Ethereum, and other cryptocurrencies: Gain an understanding of a broad spectrum of Bitcoin topics. The Basics of Bitcoins and Blockchains covers

topics such as the history of Bitcoin, the Bitcoin blockchain, and Bitcoin buying, selling, and mining. It also answers how payments are made and how transactions are kept secure. Other cryptocurrencies and cryptocurrency pricing are examined, answering how one puts a value on cryptocurrencies and digital tokens. Blockchain technology: Blockchain technology underlies all cryptocurrencies and cryptocurrency transactions. But what exactly is a blockchain, how does it work, and why is it important? The Basics of Bitcoins and Blockchains will answer these questions and more. Learn about notable blockchain platforms, smart contracts, and other important facets of blockchains and their function in the changing cyber-economy. Things to know before buying cryptocurrencies: The Basics of Bitcoins and Blockchains offers trustworthy and balanced insights to those interested in Bitcoin investing or investing in other cryptocurrency. Discover the risks and mitigations, learn how to identify scams, and understand cryptocurrency exchanges, digital wallets, and regulations with this book. Readers will learn about: Bitcoin and other cryptocurrencies Blockchain technology and how it works The workings of the cryptocurrency market The evolution and potential impacts of Bitcoin and blockchains on global businesses Dive into the world of cryptocurrency with confidence with this comprehensive introduction.

Tools and Algorithms for the Construction and Analysis of Systems

A workbook that discusses the main elements of tonal harmony, and contains numerous music examples and exercises for working. Particularly helpful to bridge the gap between Grade 5 and Grade 6 theory, and also very useful material for all higher-grade theory exam entrants, and for A Level, Diploma and undergraduate music students.

Killing Kelly

This book constitutes the refereed proceedings of the Third International Conference on Reliability, Safety, and Security of Railway Systems, RSSRail 2019, held in Lille, France in June 2019. The 18 full papers presented in this book were carefully reviewed and selected from 38 submissions. They cover a range of topics including railways system and infrastructure advance modelling; scheduling and track planning; safety process and validation; modelling; formal verification; and security. .

FE Exam Flashcard Study System

This book constitutes the refereed proceedings of the 11th International Andrei P. Ershov Informatics Conference, PSI 2017, held in Moscow, Russia, in June 2017. The 31 full papers presented in this volume were carefully reviewed and selected

from 57 submissions. The papers cover various topics related to the foundations of program and system development and analysis, programming methodology and software engineering and information technologies.

The Truth Machine

Gre Vocab Capacity

Forthcoming Books

Reliability, Safety, and Security of Railway Systems

Explores the Viking ways with photographs, reconstruction of Vicking ways, maps, antiquites, and history.

Letters & Poems Tu Es Brither Jan: In the Devonshire Dialect

Bitcoin became a buzzword overnight. A cyber-enigma with an enthusiastic

following, it pops up in headlines and fuels endless media debate. You can apparently use it to buy anything from coffee to cars, yet few people seem to truly understand what it is. This raises the question: Why should anyone care about bitcoin? In *The Age of Cryptocurrency*, Wall Street journalists Paul Vigna and Michael J. Casey deliver the definitive answer to this question. Cybermoney is poised to launch a revolution, one that could reinvent traditional financial and social structures while bringing the world's billions of "unbanked" individuals into a new global economy. Cryptocurrency holds the promise of a financial system without a middleman, one owned by the people who use it and one safeguarded from the devastation of a 2008-type crash. But bitcoin, the most famous of the cybermonies, carries a reputation for instability, wild fluctuation, and illicit business; some fear it has the power to eliminate jobs and to upend the concept of a nation-state. It implies, above all, monumental and wide-reaching change—for better and for worse. But it is here to stay, and you ignore it at your peril. Vigna and Casey demystify cryptocurrency—its origins, its function, and what you need to know to navigate a cyber-economy. The digital currency world will look very different from the paper currency world; *The Age of Cryptocurrency* will teach you how to be ready.

Debunking the Genocide Myth

The innovative investor's guide to an entirely new asset class—from two experts

on the cutting edge With the rise of bitcoin and blockchain technology, investors can capitalize on the greatest investment opportunity since the Internet. Bitcoin was the first cryptoasset, but today there are over 800 and counting, including ether, ripple, litecoin, monero, and more. This clear, concise, and accessible guide from two industry insiders shows you how to navigate this brave new blockchain world—and how to invest in these emerging assets to secure your financial future. Cryptoassets gives you all the tools you need:

- * An actionable framework for investigating and valuing cryptoassets
- * Portfolio management techniques to maximize returns while managing risk
- * Historical context and tips to navigate inevitable bubbles and manias
- * Practical guides to exchanges, wallets, capital market vehicles, and ICOs
- * Predictions on how blockchain technology may disrupt current portfolios

In addition to offering smart investment strategies, this authoritative resource will help you understand how these assets were created, how they work, and how they are evolving amid the blockchain revolution. The authors define a clear and original cryptoasset taxonomy, composed of cryptocurrencies, cryptocommodities, and cryptotokens, with insights into how each subset is blending technology and markets. You'll find a variety of methods to invest in these assets, whether through global exchanges trading 24/7 or initial cryptoasset offerings (ICOs). By sequentially building on the concepts of each prior chapter, the book will provide you with a full understanding of the cryptoasset economy and the opportunities that await the innovative investor. Cryptoassets represent the future of money and markets. This book is your guide to that future.

The World of the Vikings

Imagine what you could do if scalability wasn't a problem. With this hands-on guide, you'll learn how the Cassandra database management system handles hundreds of terabytes of data while remaining highly available across multiple data centers. This expanded second edition—updated for Cassandra 3.0—provides the technical details and practical examples you need to put this database to work in a production environment. Authors Jeff Carpenter and Eben Hewitt demonstrate the advantages of Cassandra's non-relational design, with special attention to data modeling. If you're a developer, DBA, or application architect looking to solve a database scaling issue or future-proof your application, this guide helps you harness Cassandra's speed and flexibility. Understand Cassandra's distributed and decentralized structure Use the Cassandra Query Language (CQL) and cqlsh—the CQL shell Create a working data model and compare it with an equivalent relational model Develop sample applications using client drivers for languages including Java, Python, and Node.js Explore cluster topology and learn how nodes exchange data Maintain a high level of performance in your cluster Deploy Cassandra on site, in the Cloud, or with Docker Integrate Cassandra with Spark, Hadoop, Elasticsearch, Solr, and Lucene

Software Engineering and Formal Methods

This book constitutes the refereed post-conference proceedings of the IFIP WG 9.7 International Workshop on the History of Computing, HC 2018, Held at the 24th IFIP World Computer Congress, WCC 2018, in Poznań, Poland, in September 2018. The 16 revised full papers were carefully reviewed and selected from 20 submissions. They reflect academic approaches to history along with the expertise of museum and other public history professionals as well as the experience of computing and information science practitioners. The papers are organized in the following sections: Eastern Europe, Poland, Soviet Union, CoCom and Comecon; analog computing, and public history.

The Basics of Bitcoins and Blockchains

This book explores the intricate and multi-dimensional conception of clarity and obscurity in the law. It presents and examines the most recent research and theories, giving practical guidance on how to avoid obscurity in legal drafting and its impact on legal interpretation. The book is aimed at a multidisciplinary audience and seeks to promote an interdisciplinary debate on clarity, law and language, calling for the moving of clarity beyond the study of plain language. The aims of the book are thus two fold. The first is to critically reach a nexus between the disciplines of law and language with respect to the debates on clarity in legal discourse. The second is to achieve an international perspective on the issue, drawing from a wide range of legal and political contexts.

Cryptoassets: The Innovative Investor's Guide to Bitcoin and Beyond

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