

Mastering Bitcoin Programming The

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Mastering Bitcoin Programming The

2021-12-01

RAMOS CARNEY

A Comprehensive Introduction Whispering Candle

Discover the book which will cover everything from a simple "What is Bitcoin" to the advanced bitcoin coding and bitcoin blockchain. Now there might be some questions playing on your mind like: What is Bitcoin? Why should I care? What the heck is blockchain? Is it secure? What can Bitcoin do that the dollar can't? Who benefits? How can I make money with bitcoin? Is Bitcoin doomed to fail? Also, are you worried that it's too technical and that you will never understand the concepts? Do you suffer from future shock, but are looking for a reason to be optimistic? Do you see the possibility of something new and beautiful, but are unsure of it or how to articulate it to friends? Then you have found the perfect book. In this book, we'll look at the answers to all these questions along with addressing how I made millions of dollars trading bitcoin and other cryptocurrencies. Here is a preview of what this book will offer: Introducing Bitcoin How the Bitcoin Protocol Works? How Bitcoin Is Different from Normal Currencies Understanding the Blockchain Technology Bitcoin Mining Bitcoin Wallets The Bitcoin Core The Pros and Cons of Bitcoin How to Buy, Sell, and Invest in Bitcoin How Bitcoin Can and Will Disrupt the Financial System Top 5 Mistakes to Avoid While Trading Bitcoin Real World Use of Bitcoin How I Became a Millionaire in 6 Months Trading Bitcoin and Cryptocurrency The Future of Bitcoin and the Challenges It Faces And Much, Much More! "Perfect for fans of Nathaniel Popper and Andreas M. Antonopoulos." Final Words: Even if you think you know everything discussed here, give this book a shot. It's an informative and entertaining read, and you may pick up some valuable tools and new ways of thinking you've never read or heard of before. Would You Like to Know More? Scroll to the top and click that yellow button, and Get your copy Today! See you inside!

A Collection of Talks by Andreas M. Antonopoulos Princeton University Press

Magical girls meet military warfare—now with an anime! When the Earth was threatened by the sudden appearance of undead creatures, a group of young women blessed with powers from a mysterious source rose to defeat them. Now, after three years of apparent peace, the same malevolent creatures have resurfaced. Five magical girls are once again conscripted to war as the Magical Girl Special Ops force, to defend mankind from an unholy nemesis!

The Only Bitcoin Investing Book You'll Ever Need: An Absolute Beginner's Guide to the Cryptocurrency Which Is Changing the World and Your Finances in "O'Reilly Media, Inc."

Summary If you think Bitcoin is just an alternative currency for geeks, it's time to think again. Grokking Bitcoin opens up this powerful distributed ledger system, exploring the technology that enables applications both for Bitcoin-based financial transactions and using the blockchain for registering physical property ownership. With this fully illustrated, easy-to-read guide, you'll finally understand how Bitcoin works, how you can use it, and why you can trust the blockchain. Foreword by David A. Harding, Contributor to Bitcoin documentation. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Inflation, depressed economies, debased currencies ... these are just a few of the problems centralized banking has caused throughout history. Bitcoin, a digital currency created with the ambition to shift control away from change-prone governments, has the potential to bring an end to those problems once and for all. It's time to find out how it can help you. About the Book Grokking Bitcoin explains why Bitcoin's supporters trust it so deeply, and why you can too. This approachable book will introduce you to Bitcoin's groundbreaking technology, which is the key to this world-changing system. This illustrated, easy-to-read guide prepares you for a new way of thinking with easy-to-follow diagrams and exercises. You'll discover how Bitcoin mining works, how to accept Bitcoin, how to participate in the Bitcoin network, and how to set up a digital wallet. What's inside Bitcoin transactions The blockchain Bitcoin mining Bitcoin wallets About the Reader Intended for anyone interested in learning about Bitcoin technology. While a basic understanding of technical concepts is beneficial, no programming skills are necessary. About the Author Kalle Rosenbaum is a computer scientist, an avid Bitcoin supporter, and the founder of Propeller, a Bitcoin consultancy. Table of Contents Introduction to Bitcoin Cryptographic hash functions and digital signatures Addresses Wallets Transactions The blockchain Proof of work Peer-to-peer network Transactions revisited Segregated witness Bitcoin upgrades

Attack of the 50 Foot Blockchain John Wiley & Sons

Creating robust software requires the use of efficient algorithms, but programmers seldom think about them until a problem occurs. Algorithms in a Nutshell describes a large number of existing algorithms for solving a variety of problems, and helps you select and implement the right algorithm for your needs -- with just enough math to let you understand and analyze algorithm performance. With its focus on application, rather than theory, this book provides efficient code solutions in several programming languages that you can easily adapt to a specific project. Each major algorithm is presented in the style of a design pattern that includes information to help you understand why and when the algorithm is appropriate. With this book, you will: Solve a particular coding problem or improve on the performance of an existing solution Quickly locate algorithms that relate to the problems you want to solve, and determine why a particular algorithm is the right one to use Get algorithmic solutions in C, C++, Java, and Ruby with implementation tips Learn the expected performance of an algorithm, and the conditions it needs to perform at its best Discover the impact that similar design decisions have on different algorithms Learn advanced data structures to improve the efficiency of algorithms With Algorithms in a Nutshell, you'll learn how to improve the performance of key algorithms essential for the success of your software applications.

Cryptocurrency Investing For Dummies John Wiley & Sons

When a pseudonymous programmer introduced "a new electronic cash system that's fully peer-to-peer, with no trusted third party" to a small online mailing list in 2008, very few paid attention. Ten years later, and against all odds, this upstart autonomous decentralized software offers an unstoppable and globally-accessible hard money alternative to modern central banks. The Bitcoin Standard analyzes the historical context to the rise of Bitcoin, the economic properties that have allowed it to grow quickly, and its likely economic, political, and social implications. While Bitcoin is a new invention of the digital age, the problem it purports to solve is as old as human society itself: transferring value across time and space. Ammous takes the reader on an engaging journey through the history of technologies performing the functions of money, from primitive systems of trading limestones and seashells, to metals, coins, the gold standard, and modern government debt.

Exploring what gave these technologies their monetary role, and how most lost it, provides the reader with a good idea of what makes for sound money, and sets the stage for an economic discussion of its consequences for individual and societal future-orientation, capital accumulation, trade, peace, culture, and art. Compellingly, Ammous shows that it is no coincidence that the loftiest achievements of humanity have come in societies enjoying the benefits of sound monetary regimes, nor is it coincidental that monetary collapse has usually accompanied civilizational collapse. With this background in place, the book moves on to explain the operation of Bitcoin in a functional and intuitive way. Bitcoin is a decentralized, distributed piece of software that converts electricity and processing power into indisputably accurate records, thus allowing its users to utilize the Internet to perform the traditional functions of money without having to rely on, or trust, any authorities or infrastructure in the physical world. Bitcoin is thus best understood as the first successfully implemented form of digital cash and digital hard money. With an automated and perfectly predictable monetary policy, and the ability to perform final settlement of large sums across the world in a matter of minutes, Bitcoin's real competitive edge might just be as a store of value and network for final settlement of large payments—a digital form of gold with a built-in settlement infrastructure. Ammous' firm grasp of the technological possibilities as well as the historical realities of monetary evolution provides for a fascinating exploration of the ramifications of voluntary free market money. As it challenges the most sacred of government monopolies, Bitcoin shifts the pendulum of sovereignty away from governments in favor of individuals, offering us the tantalizing possibility of a world where money is fully extricated from politics and unrestrained by borders. The final chapter of the book explores some of the most common questions surrounding Bitcoin: Is Bitcoin mining a waste of energy? Is Bitcoin for criminals? Who controls Bitcoin, and can they change it if they please? How can Bitcoin be killed? And what to make of all the thousands of Bitcoin knock-offs, and the many supposed applications of Bitcoin's 'blockchain technology'? The Bitcoin Standard is the essential resource for a clear understanding of the rise of the Internet's decentralized, apolitical, free-market alternative to national central banks.

How You Can Make Insane Money Investing and Trading in Bitcoin John Wiley & Sons

"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.

In Math We Trust O'Reilly Media

Transform Your Ideas into High-Quality Python Code! Zed Shaw has perfected the world's best system for becoming a truly effective Python 3.x developer. Follow it and you will succeed—just like the tens of millions of programmers he's already taught. You bring the discipline, commitment, and persistence; the author supplies everything else. In Learn Python 3 the Hard Way, Zed Shaw taught you the basics of Programming with Python 3. Now, in Learn More Python 3 the Hard Way, you'll go far beyond the basics by working through 52 brilliantly crafted projects. Each one helps you build a key practical skill, combining demos to get you started and challenges to deepen your understanding. Zed then teaches you even more in 12 hours of online videos, where he shows you how to break, fix, and debug your code. First, you'll discover how to analyze a concept, idea, or problem to implement in software. Then, step by step, you'll learn to design solutions based on your analyses and implement them as simply and elegantly as possible. Throughout, Shaw stresses process so you can get started and build momentum, creativity to solve new problems, and quality so you'll build code people can rely on. Manage complex projects with a programmer's text editor Leverage the immense power of data structures Apply algorithms to process your data structures Master indispensable text parsing and processing techniques Use SQL to efficiently and logically model stored data Learn powerful command-line tools and skills Combine multiple practices in complete projects It'll be hard at first. But soon, you'll just get it—and that will feel great! This course will reward you for every minute you put into it. Soon, you'll go beyond merely writing code that runs: you'll craft high-quality Python code that solves real problems. You'll be a serious Python programmer. Perfect for Everyone Who's Already Started Working with Python, including Junior Developers and Seasoned Python Programmers Upgrading to Python 3.6+ Register your product at informit.com/register for convenient access to downloads, updates, and/or corrections as they become available.

Machine Learning "O'Reilly Media, Inc."

The future will be increasingly distributed. As the publicity surrounding Bitcoin and blockchain has shown, distributed technology and business models are gaining popularity. Yet the disruptive potential of this technology is often obscured by hype and misconception. This detailed guide distills the complex, fast moving ideas behind blockchain into an easily digestible reference manual, showing what's really going on under the hood. Finance and technology pros will learn how a blockchain works as they explore the evolution and current state of the technology, including the functions of cryptocurrencies and smart contracts. This book is for anyone evaluating whether to invest time in the cryptocurrency and blockchain industry. Go beyond buzzwords and see what the technology really has to offer. Learn why Bitcoin was fundamentally important in blockchain's birth

Learn how Ethereum has created a fertile ground for new innovations like Decentralized Finance (DeFi), Non-Fungible Tokens (NFTs) and Flash Loans Discover the secrets behind cryptocurrency prices and different forces that affect the highly volatile cryptocurrency markets Learn how cryptocurrencies are used by criminals to carry out nefarious activities Discover how enterprise and governments are leveraging the blockchain including Facebook Understand the challenges of scaling and forking a blockchain Learn how different blockchains work Learn the language of blockchain as industry terms are explained

The Politics of Bitcoin E53 Publishing LLC

This book covers Bitcoin's blocksize war, which was waged from August 2015 to November 2017. On the surface the battle was about the amount of data allowed in each Bitcoin block, however it exposed much deeper issues, such as who controls Bitcoin's protocol rules. It is not possible to cover every twist and turn in the labyrinthine conflict or all the arguments, but I have provided a chronology of the most significant events. This book explores some of the major characters in the conflict and includes coverage, from both the front lines and behind the scenes, during some of the most acute phases of the struggle. The account in this book includes discussions with the key players from both sides during the war, exploring their motivations, strategy and thought processes as the exhausting campaign progressed and developed.

Learn More Python 3 the Hard Way "O'Reilly Media, Inc."

Take advantage of Bitcoin's underlying technology, the blockchain, to build massively scalable, decentralized applications known as dapps. In this practical guide, author Siraj Raval explains why dapps will become more widely used—and profitable—than today's most popular web apps. You'll learn how the blockchain's cryptographically stored ledger, scarce-asset model, and peer-to-peer (P2P) technology provide a more flexible, better-incentivized structure than current software models. Once you understand the theory behind dapps and what a thriving dapp ecosystem looks like, Raval shows you how to use existing tools to create a working dapp. You'll then take a deep dive into the OpenBazaar decentralized market, and examine two case studies of successful dapps currently in use. Learn advances in distributed-system technology that make distributed data, wealth, identity, computing, and bandwidth possible Build a Twitter clone with the Go language, distributed architecture, decentralized messaging app, and peer-to-peer data store Learn about OpenBazaar's decentralized market and its structure for supporting transactions Explore Lighthouse, a decentralized crowdfunding project that rivals sites such as Kickstarter and IndieGogo Take an in-depth look at La'Zooz, a P2P ridesharing app that transmits data directly between riders and drivers

Mastering Bitcoin for Beginners Addison-Wesley Professional

55 % discount for bookstores ! Now At \$31.99 instead of \$ 49.58 \$ Your customers will never stop reading this guide !!! Bitcoin is quite possibly the most unpredictable cryptographic form of money; one reason it is consistently liable to wild swings on the lookout. Alternately, managing digital currency requires a lot of abilities and experience. Given that the digital money space is as yet in the beginning phases of advancement, Bitcoin trading bots are turning out to be fundamental trading devices in the prospering area. A Bitcoin trading bot is a piece of programming intended to investigate the leader cryptographic money on the lookout and put in the purchase and sell requests for merchants. The bots are for the most part coordinated into a Bitcoin managing stage dependent on pre-modified and pre-characterized rules. The digital money trading bots break down market activities like value, the volume just as time and orders all in the effort of determining ideal managing opportunities. Trading bots are turning out to be progressively mainstream, given their capacity to mitigate dread and feeling from the managing condition. Moreover, they permit a dealer to execute exchanges on a pre-planned methodology and not feelings. Working as programming programs, bots examine the market all day, every day, in a quest for managing opportunities. Subsequently, they diminish the weight of watching a Bitcoin trading stage constantly, consequently permitting merchants to exchange. When Bitcoin is trading near \$12000, it is the correct time for anybody to put it away and bring in currency. Also, as the digital currency can turn into a trading or speculation alternative relying on your standpoint you should peruse the most recent Bitcoin news to refresh your insight. It helps you realize when to contribute and when to book a benefit. BTC is hot and therefore dealers or financial backers ought to be centered around the advanced currency. As new organizations are accepting cryptographic money, it is an ideal opportunity to purchase Bitcoin. Reading live BTC news you can settle on educated trading choices. Moreover, as it shows up very apparent since the buzz about Bitcoins appears to just be developing, similarly as the virtual currency is soaring in esteem yet also producing colossal premium among the controller brokers. The genuine advantages and disadvantages of managing this digital money can be seen well by the people who read refreshed Bitcoin news. It is getting exceptionally simple to acknowledge BTC now. Also, as an ever-increasing number of organizations in different enterprises are embracing BTC, you can see two or three years that this digital currency has gotten everybody. Choosing the believed BTC trade is significant for you when you purchase Bitcoin. The brokers who need to settle on educated choices visit the entrance routinely. It seems clear that as digital forms of money are getting famous among people who need to investigate options in contrast to fiat which has been administering the world for quite a long time, the necessity for the news gateway that gives Bitcoin news live is going up. At present, there is a stunning open door for depending on the success of the money and press by taking it and the equivalent is valid about the digital currency. Merchants accept that this is the perfect opportunity to purchase BTC as it has offered a reprieve of outcomes. Each time you read Bitcoin news today from Bitcoinist you get a ton of data. Buy it Now and let your customers get addicted to this amazing book !!

BITCOIN FOR BEGINNERS (Series Books) U of Minnesota Press

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.

Mastering Bitcoin O'Reilly Media

Don't start trading Cryptocurrencies without reading this book to avoid losses.Cryptocurrencies rank among the highest value assets that could be owned in present day world as 1 BTC is worth more than \$60,000 presently. One of the conveniences digital money has also extended to societies is the ease of payment up to cross-border payment levels. Nowadays, payments to other countries are instant and secure, thanks to eWallets and global payment platforms like PayPal. Therefore, it is imperative to understand how these systems work in order not to be left out of the digital rush. In addition, trading cryptocurrencies is the new wealth creator and an understanding of how this works is what this book is written to address.In this book, you will learn the following: Cryptocurrencies Bitcoin's Ecosystem Bitcoin's Prices Over the Years Software and hardware Wallets Buying and Selling Bitcoins A Fork of a Codebase Hard Forks vs. Soft Forks Digital Tokens Blockchain TechnologyPublic Blockchains Darknet Markets Cross Border PaymentsInitial Coin Offerings (ICOs) Private Blockchains Blockchain Experiments Questions to Ask Initial Coin Offerings How do ICOs work? Whitepapers The Token Sale ICO Funding Stages Whitelisting Funding Caps Treasury Exchange Listing When is a Token a Security?Investing Who Controls the Price of Utility Tokens? Risks and Mitigations Crypto TradingSwing Trading vs. Day Trading Cryptocurrency Managing Cryptocurrency Trading on an ExchangeTrading using Robinhood MARKET SIGNALS Indecision Candles Oscillators Support and ResistanceWhat Drives Market Momentum? Looking for Uptrends Downtrends Flags Moving Averages The Rule for Moving AveragesTypes of Moving Average The Golden CrossDeath CrossLet's Get started, scroll up and click the BUY NOW WITH 1-CLICK BUTTON. **Mastering Bitcoin, 2nd Edition** "O'Reilly Media, Inc."

Join the technological revolution that's taking the world of finance by storm. Mastering Bitcoin is your guide through the seemingly complex world of bitcoin, providing the knowledge you need to participate in the internet of money. Whether you're building the next killer app, investing in a startup, or simply curious about the technology, this revised and expanded second edition provides essential detail to get you started. Bitcoin, the first successful decentralized digital currency, is still in its early stages and yet it's already spawned a multi-billion dollar global economy. This economy is open to anyone with the knowledge and passion to participate. Mastering Bitcoin provides the knowledge. You simply supply the passion. The second edition includes: A broad introduction to bitcoin—ideal for non-technical users, investors, and business executives An explanation of the technical foundations of bitcoin and cryptographic currencies for developers, engineers, and software and systems architects Details of the bitcoin decentralized network, peer-to-peer architecture, transaction lifecycle, and security principles New developments such as Segregated Witness, Payment Channels, and Lightning Network Offshoots of the bitcoin and blockchain inventions, including alternative chains, currencies, and applications User stories, analogies, examples, and code snippets illustrating key technical concepts

Inventing Bitcoin David Gerard

SPECIAL DISCOUNT PRICING: \$9.90! Regularly priced: \$12.99 \$14.99. Get this Amazing #1 Amazon Top Release - Great Deal! Bitcoin is not just a new word in the Internet age or technological and financial progress, it's a start of a new era on the Earth! Even 10 years ago we even couldn't imagine dreaming about digital money - you can't physically touch them but you can own and spend them. Today this is a reality! Bitcoin revolution covered the whole world like a huge wave, more and more people interested in this "Digital Gold". Over the past few years, Bitcoin has grown from something known only to a select few tech nerds into a revolutionary currency that has rapidly changed the way that we think about the concept of money. You no doubt see Bitcoin payments accepted in all kinds of places now, but, if you can believe it, it used to be a fairly complicated procedure for finding places that let you pay in Bitcoin. Anyway, to run the world you need to know everything. We can't guarantee that you will know EVERYTHING from this book, but we can guarantee you will have the notion of a new currency - Bitcoin. What is it? Where did it come from? How do you use it? Is it really just fake internet money created by drug dealers? That is precisely what we will be answering in this book. We'll cover everything you need to know in order to get started with Bitcoin: understanding the Blockchain and Bitcoin transactions where to keep your Bitcoin (how to choose a secure wallet) buying Bitcoin investing in Bitcoin how to start accepting and using Bitcoin as a part of your business principles of Bitcoin mining the security of Bitcoin etc. Also, the author will share with you interesting facts about Bitcoin and will give you professional tips on the start of your way in Bitcoin family! Ready to take on the Bitcoin world yet? I hope so. I'd like to be the first to officially welcome you to the world of Bitcoin!

The Decentralized Alternative to Central Banking O'Reilly Media

Dive into Bitcoin technology with this hands-on guide from one of the leading teachers on Bitcoin and Bitcoin programming. Author Jimmy Song shows Python programmers and developers how to program a Bitcoin library from scratch. You'll learn how to work with the basics, including the math, blocks, network, and transactions behind this popular cryptocurrency and its blockchain payment system. By the end of the book, you'll understand how this cryptocurrency works under the hood by coding all the components necessary for a Bitcoin library. Learn how to create transactions, get the data you need from peers, and send transactions over the network. Whether you're exploring Bitcoin applications for your company or considering a new career path, this practical book will get you started. Parse, validate, and create bitcoin transactions Learn Script, the smart contract language behind Bitcoin Do exercises in each chapter to build a Bitcoin library from scratch Understand how proof-of-work secures the blockchain Program Bitcoin using Python 3 Understand how simplified payment verification and light wallets work Work with public-key cryptography and cryptographic primitives

The Truth Machine Seven Seas

Most people, upon first hearing about Bitcoin, don't really understand it. Is it magical Internet money? Where does it come from? Who controls it? Why is it important? For me, understanding all the things that come together to make Bitcoin work - the physics, math, cryptography, game theory, economics, and computer science - was a profound moment. In this book, I share this knowledge with you in a very simple and easy to understand way. With nothing but a high school level math background, we will walk through inventing bitcoin, step by step.

Mastering Blockchain St. Martin's Press

The Lightning Network (LN) is a rapidly growing second-layer payment protocol that works on top of Bitcoin to provide near-instantaneous transactions between two parties. With this practical guide, authors Andreas M. Antonopoulos, Olaoluwa Osuntokun, and Rene Pickhardt explain how this advancement will enable the next level of scale for Bitcoin, increasing speed and privacy while reducing fees. Ideal for developers, systems architects, investors, and entrepreneurs looking to gain a better understanding of LN, this book demonstrates why experts consider LN a critical solution to Bitcoin's scalability problem. You'll learn how LN has the potential to support far more transactions than today's financial networks. This book examines: How the Lightning Network addresses the challenge of blockchain scaling The Basis of Lightning Technology (BOLT) standards documents The five layers of the Lightning Network Protocol Suite LN basics, including wallets, nodes, and how to operate one Lightning payment channels, onion routing, and gossip protocol Finding paths across payment channels to transport Bitcoin off-chain from sender to recipient

Bitcoin, Blockchain, Ethereum & Smart Contracts "O'Reilly Media, Inc."

The ultimate guide to the world of cryptocurrencies! While the cryptocurrency market is known for its volatility—and this volatility is often linked to the ever-changing regulatory environment of the industry—the entire cryptocurrency market is expected to reach a total value of \$1 trillion this year. If you want to get in on the action, this book shows you how. Cryptocurrency Investing For Dummies offers trusted guidance on how to make money trading and investing in the top 200 digital currencies, no matter what the market sentiment. You'll find out how to navigate the new digital finance landscape and choose the right cryptocurrency for different situations with the help of real-world examples that show you how to maximize your cryptocurrency wallet. Understand how the cryptocurrency market works Find best practices for choosing the right cryptocurrency Explore new financial opportunities Choose the right platforms to make the best investments This book explores the hot topics and market moving events affecting cryptocurrency prices and shows you how to develop the smartest investment strategies based on your unique risk tolerance.

Building Smart Contracts and DApps Independently Published

While many books explain the how of bitcoin, The Internet of Money delves into the why of bitcoin. Acclaimed information-security expert and author of Mastering Bitcoin, Andreas M. Antonopoulos examines and contextualizes the significance of bitcoin through a series of essays spanning the exhilarating maturation of this technology. Bitcoin, a technological breakthrough quietly introduced to the world in 2008, is transforming much more than finance. Bitcoin is disrupting antiquated industries to bring financial independence to billions worldwide. In this book, Andreas explains why bitcoin is a financial and technological evolution with potential far exceeding the label -digital currency.- Andreas goes beyond exploring the technical functioning of the bitcoin network by illuminating bitcoin's philosophical, social, and historical implications. As the internet has essentially transformed how people around the world interact and has permanently impacted our lives in ways we never could have imagined, bitcoin--the internet of money--is fundamentally changing our approach to solving social, political, and economic problems through decentralized technology.