

Edited by
David Lee Kuo Chuen



HANDBOOK OF
**DIGITAL
CURRENCY**

BITCOIN, INNOVATION,
FINANCIAL INSTRUMENTS,
AND BIG DATA



[PDF] Handbook Of Digital Currency: Bitcoin, Innovation, Financial Instruments, And Big Data

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Handbook of Digital Currency-David LEE Kuo Chuen 2015-05-05

Incorporating currencies, payment methods, and protocols that computers use to talk to each other, digital currencies are poised to grow in use and importance. The Handbook of Digital Currency gives readers a way to learn about subjects outside their specialties and provides authoritative background and tools for those whose primary source of information is journal articles. Taking a cross-country perspective, its comprehensive view of the field includes history, technicality, IT, finance, economics, legal, tax and regulatory environment. For those who come from different backgrounds with different questions in mind, The Handbook of Digital Currency is an essential starting point. Discusses all major strategies and tactics associated with digital currencies, their uses, and their regulations Presents future scenarios for the growth of digital currencies Written for regulators, crime prevention units, tax authorities, entrepreneurs, micro-financiers, micro-payment businesses, cryptography experts, software developers, venture capitalists, hedge fund managers, hardware manufacturers, credit card providers, money changers, remittance service providers, exchanges, and academics Winner of the 2015 "Outstanding Business Reference Source" by the Reference and User Services Association (RUSA)

Handbook of Digital Currency, Bitcoin and Blockchain: Jargon Demystified-Prakash Prasad 2020-07-25 Complex Technology Simplified... This book illustrates various terms used in Digital Currency, Bitcoin, Cryptocurrency and Blockchain in a digestible way.

Cryptocurrency - a Trader's Handbook-Marvin Neufeind 2018-05-19 December 2017 has shown that Cryptocurrencies have the potential to split the society into two groups - the one which believes in this technology and the other one which calls it a bubble. Which side is right? Are there any indicators that might prove the one or the other? Cryptocurrencies are the largest wealth redistribution in history, that is just starting to gain attention. People are still confused what blockchain really is and very few understand the potential it has. Isn't this the perfect time to learn more about it? This book is divided into two parts. The first will teach you everything about Cryptocurrencies and how they work. Contrary to many other books on the market, we focus on practical implications of the economy as well. The second part offers you a comprehensive investment section. This is not another guide that pushes trading strategies from stocks into Cryptocurrencies. We are investors ourselves and we have seen everything cryptosphere has to offer. We focus on Technical Analysis, Fundamental Analysis, Portfolio Management and Investment Strategies, but from the perspective of the volatile market. It does not matter if you are completely new to Cryptocurrencies or if you already have some knowledge on this topic. We aim to provide an easy entry for anybody by sharing our experience in the most practical way possible. This book will not only show you how to find the next potential Bitcoin or Ethereum, but also how to fight-off greed that is associated with it. So, the question is, are you watching from the sidelines or are you participating in the revolution? Index Introduction Dictionary Part 1 What are Cryptocurrencies? The Blockchain Tangle Hashgraph Wallets & Security Mining Initial Coin Offerings (ICO) What coins are there? Why should we use Cryptocurrencies? Part 2 Fundamental Analysis Doing Research Market Sentiment Technical Analysis Investment Strategies Cryptosphere The End

Handbook of Blockchain, Digital Finance, and Inclusion, Volume 1-David LEE Kuo Chuen 2017-08-03 Handbook of Blockchain, Digital Finance, and Inclusion, Volume 1: Cryptocurrency, FinTech, InsurTech, and Regulation explores recent advances in digital banking and cryptocurrency, emphasizing mobile technology and evolving uses of cryptocurrencies as

financial assets. Contributors go beyond summaries of standard models to describe new banking business models that will be sustainable and will likely dictate the future of finance. The volume not only emphasizes the financial opportunities made possible by digital banking, such as financial inclusion and impact investing, but it also looks at engineering theories and developments that encourage innovation. Its ability to illuminate present potential and future possibilities make it a unique contribution to the literature. Explores recent advances in digital banking and cryptocurrency, emphasizing mobile technology and evolving uses of cryptocurrencies as financial assets Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance, financial inclusion, impact investing, decentralized consensus ledger and applied cryptography Provides the only advanced methodical summary of these subjects available today

The Bitcoin Guidebook-Ian DeMartino 2018-10-30 2018 Revised Edition Bitcoin has made early investors like the Winklevoss twins millions in a matter of minutes in the past year and has the potential to transform the financial landscape. It's not too late to get in on the action. Bitcoin is not another payment processor. Like the Internet, Bitcoin is a technology that runs through a distributed network. No one controls it, and no one can shut it down. Bitcoin has been called the currency of the Internet, but it is much more powerful than that. More astute observers have called it the Internet of currency. This new, revised edition of The Bitcoin Guidebook has the most up-to-date info and recommended approaches for anyone who doesn't want to be left behind in the next technological revolution. It is an easy-to-read, easy-to-understand guide that explains everything the reader needs to know about how Bitcoin and other digital currencies work, what they can be used for, and how they will shape our society in the future. Topics covered include: The digital currency's origins, past, present, and future The revolutionary blockchain technology behind Bitcoin, and its future for the industries of music, arts, photography, and more How to obtain and invest in Bitcoin or other cryptocurrency How and where to spend Bitcoin Bitcoin's relationship with the seedy Internet underground Alternative digital currencies, like ethereum, ripple, litecoin, IOTA or dash How governments and financial institutions may react to cryptocurrency in the future How to interact with other Bitcoin owners on exchanges like Coinbase

Cryptocurrency and Blockchain Technology-Shaen Corbet 2020-08-24 This handbook will provide a comprehensive treatment of the gamut of issues and challenges that exist through the development of both cryptocurrencies and blockchain technology. This will not be confined to simply the investment potential within these new technological areas. We will examine the challenges in the regulatory, legal, taxation, accounting, modelling, ethical, macroeconomic impact and internationalization issues. Research on cryptocurrencies and blockchain technology has identified issues such as pricing abnormalities and bubble-like behavior, indicating that these new assets are highly speculative in nature, contain a growing number of legal abnormalities (such as the hacking of exchanges and broad theft of investor assets) and a growing number of significant regulatory issues. It is paramount that we investigate each of these issues in great detail to help to determine whether cryptocurrencies and blockchain technology merits consideration as a sustainable alternative investment asset. The handbook will be useful for specialist technical audiences such as legal, accounting and financial practices. It will also be beneficial for upper level masters and research students in economics, law, accounting, taxation, investment and portfolio management.

Blockchain Handbook-K. J. Arora 2019-04-30 Blockchain technology is revolutionary, it has potential to transform businesses and economies. Its peer-to-peer decentralized transaction model will challenge and disrupt business models. Here are some predictions for the Blockchain Technology: As per Gartner "Blockchain's business value-add will grow to over \$360

billion by 2026 and will reach \$3.1 trillion by 2030." Cisco published a report about Blockchain and revealed that the technology has the potential to store more than 10% of the globe's total gross domestic product (GDP) by the year 2027. As per Garter, Blockchain will support the global movement and tracking of \$2T of goods and services annually by 2023. By 2025, most countries will issue digital currency. I foresee a future where every individual will have a Blockchain based identity by 2030, this will be like a super social security number that can be used all across the world. Considering the potential of the technology, it's imperative for companies and managers to get familiar with the Blockchain technology and comprehend how they can leverage it to transform their business operations. Book is suitable for both Business & Technical managers. It provides broad coverage of the Blockchain technology and Cryptocurrency. It provides insights into Blockchain features, Business Use Cases, Smart Contracts and its utility, Mining, Consensus, Public & Enterprise Blockchains and Cryptocurrency essentials.

Handbook of Blockchain, Digital Finance, and Inclusion-David LEE Kuo Chuen 2017-09-29 Handbook of Digital Finance and Financial Inclusion: Cryptocurrency, FinTech, InsurTech, Regulation, ChinaTech, Mobile Security, and Distributed Ledger explores recent advances in digital banking and cryptocurrency, emphasizing mobile technology and evolving uses of cryptocurrencies as financial assets. Contributors go beyond summaries of standard models to describe new banking business models that will be sustainable and likely to dictate the future of finance. The book not only emphasizes the financial opportunities made possible by digital banking, such as financial inclusion and impact investing, but also looks at engineering theories and developments that encourage innovation. Its ability to illuminate present potential and future possibilities make it a unique contribution to the literature. A companion Volume Two of The Handbook of Digital Banking and Financial Inclusion: ChinaTech, Mobile Security, Distributed Ledger, and Blockchain emphasizes technological developments that introduce the future of finance. Descriptions of recent innovations lay the foundations for explorations of feasible solutions for banks and startups to grow. The combination of studies on blockchain technologies and applications, regional financial inclusion movements, advances in Chinese finance, and security issues delivers a grand perspective on both changing industries and lifestyles. Written for students and practitioners, it helps lead the way to future possibilities. Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance, financial inclusion, impact investing, decentralized consensus ledger and applied cryptography Provides the only advanced methodical summary of these subjects available today

Cryptonomics: A Modern Investors Guide to Cryptocurrency Markets and Blockchain Literacy-Chris Wiser 2019-01-14 The modern investors definitive guide to cryptocurrency and blockchain technologies. Are you struggling to understand the cryptocurrency markets and technology that fuels them? Are you confused about how they came to be and what you can do to capitalize on them? The cryptocurrency marketplace has experienced a turbulent path to ubiquity, forcing it onto the radar of investors, companies, and governments across the globe. Today, a marketplace once littered with questionable offerings and mania-induced hype is developing before our eyes to become suitable for mainstream adoption. But many are still left wondering, "What does cryptocurrency look like after the boom?" This approachable and comprehensive handbook will provide a primer for mastering this complicated marketplace in 2019 (and beyond). This book includes:

- A non-technical introduction to how the blockchain works
- A step-by-step guide for navigating exchanges, wallets, ICOs and more
- Tips + checklists for researching cryptocurrencies
- A taxonomy of the current cryptocurrency ecosystem
- Informative analysis of promising blockchain applications and the industries they're disrupting

 Cryptonomics demystifies cryptocurrency markets and the underlying technology to deliver a no-nonsense primer that readers can understand and implement. This informational guide gives you the tools you need to invest sensibly and understand the technology poised to play an integral role in the new Digital Economy.

The Everything Guide to Investing in Cryptocurrency-Ryan Drousseau 2019-03-05 Maximize your money while avoiding the potential pitfalls of investing in cryptocurrency—this handy guide shows you how to get in from the bottom up in this hot new market. Cryptocurrency—a digital asset that uses cryptography to secure all of its transactions, making it nearly impossible to counterfeit—is moving into the mainstream, receiving coverage from major financial websites such as Forbes and Bloomberg, as well as increased attention from serious financial institutions, and experiencing wider availability in trusted markets, such as the world's largest futures exchange, Chicago Mercantile Exchange. As the price of

Bitcoin and other cryptocurrencies continue to fluctuate and news stories of cryptocurrency hackers increase, investors have to be more conscious of the huge opportunities and large risks in this market. Understanding these risks and rewards of cryptocurrency is vital for everyone wanting to make money on this exciting new form of investing. The Everything Guide to Investing in Cryptocurrency is an authoritative and comprehensive guide to help you safely jump into the lucrative world of e-commerce. You'll learn: —The different major cryptocurrencies, including Bitcoin, Litecoin, and Ethereum —Where to buy and sell cryptocurrencies safely and securely —Setting up and managing your cryptocurrency wallet —Properly analyzing their investments Leap into cryptocurrencies with a full understanding of what you're investing in. With the help of The Everything Guide to Investing in Cryptocurrencies, you'll maximize your gains and minimize your risks in this radical new frontier.

Handbook of Research on Blockchain Technology-Saravanan Krishnan 2020-02-04 Handbook of Research on Blockchain Technology presents the latest information on the adaptation and implementation of Blockchain technologies in real world business, scientific, healthcare and biomedical applications. The book's editors present the rapid advancements in existing business models by applying Blockchain techniques. Novel architectural solutions in the deployment of Blockchain comprise the core aspects of this book. Several use cases with IoT, biomedical engineering, and smart cities are also incorporated. As Blockchain is a relatively new technology that exploits decentralized networks and is used in many sectors for reliable, cost-effective and rapid business transactions, this book is a welcomed addition on existing knowledge. Financial services, retail, insurance, logistics, supply chain, public sectors and biomedical industries are now investing in Blockchain research and technologies for their business growth. Blockchain prevents double spending in financial transactions without the need of a trusted authority or central server. It is a decentralized ledger platform that facilitates verifiable transactions between parties in a secure and smart way. Presents the evolution of blockchain, from fundamental theories, to present forms Explains the concepts of blockchain related to cloud/edge computing, smart healthcare, smart cities and Internet of Things (IoT) Provides complete coverage of the various tools, platforms and techniques used in blockchain Explores smart contract tools and consensus algorithms Covers a variety of applications with real world case studies in areas such as biomedical engineering, supply chain management, and tracking of goods and delivery

The Ultimate Guide to Bitcoin-Michael Miller 2014-01-20 Annotation The whole truth about Bitcoin ... So you can decide for yourself! Bitcoin: it's the worldwide virtual currency everyone's talking about. But most explanations of Bitcoin are completely bewildering—they're either written by people in thrall with it or by those appalled by the very notion of an alternative currency. What's the real story? How does Bitcoin work? Where did it come from? What's it good for? How do you get, store, and spend Bitcoins? And should you? The Ultimate Guide to Bitcoin answers all your questions—honestly, objectively, and in plain English. Michael Miller has spent his life demystifying complicated ideas and technologies: he's helped more than 1,000,000 readers in over 150 easy-to-understand books. Now, he explains Bitcoin in ways everyone can understand. Miller will help you decide for yourself if Bitcoin should be part of your life. And if the answer is "Yes," he'll help you make the most of it! Is Bitcoin the currency of the future—or just the latest scam? Why does anyone think Bitcoins have value? Are Bitcoins legal? Are Bitcoins really untraceable? How and where can I buy Bitcoins? How do I choose a Bitcoin exchange? How do I find out what my Bitcoins are worth? Can I trade Bitcoin just like other currencies? Can I really mine my own new Bitcoins? Is Bitcoin taxable? Where should I store my Bitcoins? How much Bitcoin fraud and theft really exists? Which merchants accept Bitcoin? How safe—or risky—is Bitcoin? How does Bitcoin compare to other virtual currencies? What's the future of Bitcoin?

The Crypto Novice-Colin Oliva 2018-06-14 You've heard your friends talking about it, you hear coworkers, you watch it on the news, it chases you to the internet, cryptocurrency is everywhere. You cannot escape it, its trending everywhere. You cannot and should not ignore it anymore. Learn what cryptocurrency is, why it is such a big deal, and maybe how you can make money from this tremendous new market. This book is intended for beginners but is packed with useful information for any level of cryptocurrency investor. It will take you on a journey to learn everything you need to know about currency and cryptocurrency, how to research, and ideas for different investment strategies. It will give you everything you need to know to get you started in the cryptocurrency markets. The cryptocurrency market presents a tremendous opportunity for investors not seen since the dot-com boom at the turn of the century. Do not miss out on this incredible opportunity.

Handbook of Blockchain, Digital Finance, and Inclusion, Volume 2-

David LEE Kuo Chuen 2017-08-16 Handbook of Blockchain, Digital Finance, and Inclusion, Volume 2: ChinaTech, Mobile Security, and Distributed Ledger emphasizes technological developments that introduce the future of finance. Descriptions of recent innovations lay the foundations for explorations of feasible solutions for banks and startups to grow. The combination of studies on blockchain technologies and applications, regional financial inclusion movements, advances in Chinese finance, and security issues delivers a grand perspective on both changing industries and lifestyles. Written for students and practitioners, it helps lead the way to future possibilities. Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance, financial inclusion, impact investing, decentralized consensus ledger and applied cryptography Provides the only advanced methodical summary of these subjects available today

Serious Cryptography-Jean-Philippe Aumasson 2017

Serious Cryptography is the much anticipated review of modern cryptography by cryptographer JP Aumasson. This is a book for readers who want to understand how cryptography works in today's world. The book is suitable for a wide audience, yet is filled with mathematical concepts and meaty discussions of how the various cryptographic mechanisms work. Chapters cover the notion of secure encryption, randomness, block ciphers and ciphers, hash functions and message authentication codes, public-key crypto including RSA, Diffie-Hellman, and elliptic curves, as well as TLS and post-quantum cryptography. Numerous code examples and real use cases throughout will help practitioners to understand the core concepts behind modern cryptography, as well as how to choose the best algorithm or protocol and ask the right questions of vendors. Aumasson discusses core concepts like computational security and forward secrecy, as well as strengths and limitations of cryptographic functionalities related to

Cryptocurrency Trading and Investing-Aimee Vo 2018-06-18 2nd Edition

- Updated as of 15th June 2018. The 2nd edition of "Cryptocurrency Trading & Investing for Beginners" has been revised and thoroughly updated to reflect the latest cryptocurrency market changes. Including a new in-depth process for 'researching profitable coins, tokens, and ICO investing' and an entirely new chapter on ICO investing, airdrops, cryptocurrency taxes and more! If you're new to Bitcoin, the blockchain, have zero technical knowledge and trading experience in cryptocurrencies - then this book is for you. It's the beginner's guide to buying, trading and investing in Bitcoin, Ethereum, altcoins and Initial Coin Offering (ICOs) for PROFIT and in plain English. Having been an ex-investment advisor at UBS, combined with 7 years experience in equities trading, portfolio management and now cryptocurrency trading - this book breaks down highly technical information in Bitcoin, blockchain and cryptocurrency investing in an easy to understand, logical and step-by-step manner. Here's exactly what you're going to learn in this book: - What cryptocurrencies are, what is the blockchain and how it works in plain English! - The different types of Bitcoin and altcoin wallets and what my top picks for security are. - How to set up a variety of wallets and video tutorials from the crypto community. - The types of coins and tokens on the market and how they differ. - How to buy your first Bitcoin or Ethereum easily online. - Step-by-step tutorials on how to buy Bitcoin on exchanges like Coinbase, Bitstamp and LocalBitcoin with screenshots. - The foundations of trading cryptocurrencies and technical jargon that every new trader must know. - Step-by-step tutorials on how to trade altcoins on Bittrex, Binance and Poloniex like a pro with screenshots to guide you. - How to margin trade and short cryptocurrencies on Poloniex with screenshots to guide you. - A simple crypto trading plan that you can utilize to profit from market swings and even day trading. - An easy and simplified approach to building a diversified cryptocurrency portfolio for profit and long-term growth. - Step-by-step process to research profitable coins and tokens properly before you invest any money. - How to invest in profitable ICOs and step-by-step instructions on how to participate in an ICO using a MetaMask Ether wallet. - How to read price charts using technical analysis and trade the cryptocurrency market and more! FREE Printable Companion Workbook: You'll want to get your hands on my NEW "Researching profitable coins and tokens checklist" and "ICO investing checklist." These workbooks which goes into more detail and gives exact, step-by-step plans to follow. Learn how to get access to them when you buy the book. Click on the buy button now and get CRYPTOCURRENCY TRADING & INVESTING - The Beginner's guide in learning Bitcoin, Blockchain, Wallets, Crypto Exchanges, Simple Crypto Trading Plans, Building a Growth Portfolio In Cryptocurrencies & Reading Crypto Charts Using Technical Analysis now!

Cryptocurrency-Neil Hoffman 2017-10-03 Do you want to completely

change your life in 6 months? This book will show you what you have to do but more important how you can do it and how I (An ex-army) became a Crypto Millionaire in 6 months If you don't know much about Cryptocurrency, don't worry. We all start with nothing. For those who do commit to learning the art of cryptocurrency trading, you will never look at or enjoy the life same way ever again. The purpose of this book is to provide a full perspective of cryptocurrency trading, including how to make money investing in cryptocurrencies and how to know more about the cryptocurrency world. So, how can you make insane money with cryptocurrencies? One word: Altcoins. Altcoins stand for 'alternative coins', or in simple terms, the cryptocurrency that's NOT Bitcoin. There's Bitcoin and then there's 'everything else'. 'Everything else' is what altcoins are. Invest in altcoins, the right ones, and you can make insane amounts of money and fast. So, we will discuss all these in detail inside the book including my own story about how I became a crypto millionaire in 6 months and will show you how you can do it as well. In this book you will learn: Introducing Cryptocurrency The Most Common Cryptocurrencies How I Became a Crypto Millionaire in 6 Months Understanding Blockchain Technology How Does Cryptocurrency Work? Investment Mining Cryptocurrency Exchanges How to Store and Secure Cryptocurrency 6 Mistakes to Avoid While Trading Cryptocurrency The Pros and Cons of Cryptocurrency Smart Contracts How Cryptocurrency Can and Will Disrupt the Financial System Ways to Make Money with Cryptocurrency The Future of Cryptocurrency And Much, Much More! "Cryptocurrency is such a powerful concept that it can almost overturn governments" - Charles Lee, The creator of Litecoin "So my view's quite clear. I believe cryptocurrencies, bitcoin is the first example, I believe they're going to change the world." - Richard Brown, Executive Architect at IBM 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 Get your copy Today! See you inside!

Mastering Bitcoin-Andreas M. Antonopoulos 2017-06-12 Join the technological revolution that's taking the financial world 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 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 of bitcoin and its underlying blockchain—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 A deep dive into blockchain applications, including how to combine the building blocks offered by this platform into higher-level applications User stories, analogies, examples, and code snippets illustrating key technical concepts

Bitcoin and Cryptocurrency Technologies-Arvind Narayanan 2016-07-19

An authoritative introduction to the exciting new technologies of digital money Bitcoin and Cryptocurrency Technologies provides a comprehensive introduction to the revolutionary yet often misunderstood new technologies of digital currency. Whether you are a student, software developer, tech entrepreneur, or researcher in computer science, this authoritative and self-contained book tells you everything you need to know about the new global money for the Internet age. How do Bitcoin and its block chain actually work? How secure are your bitcoins? How anonymous are their users? Can cryptocurrencies be regulated? These are some of the many questions this book answers. It begins by tracing the history and development of Bitcoin and cryptocurrencies, and then gives the conceptual and practical foundations you need to engineer secure software that interacts with the Bitcoin network as well as to integrate ideas from Bitcoin into your own projects. Topics include decentralization, mining, the politics of Bitcoin, altcoins and the cryptocurrency ecosystem, the future of Bitcoin, and more. An essential introduction to the new technologies of digital currency Covers the history and mechanics of Bitcoin and the block chain, security, decentralization, anonymity, politics and regulation, altcoins, and much more Features an accompanying website that includes instructional videos for each chapter, homework problems, programming assignments, and lecture slides Also suitable for use with the authors' Coursera online course Electronic solutions manual (available only to professors)

Bitcoin and Beyond-Malcolm Campbell-Verduyn 2017-11-28 Since the launch of Bitcoin in 2009 several hundred different 'cryptocurrencies' have been developed and become accepted for a wide variety of transactions in leading online commercial marketplaces and the 'sharing economy', as well as by more traditional retailers, manufacturers, and even by charities and political parties. Bitcoin and its competitors have also garnered attention for their wildly fluctuating values as well as implication in international money laundering, Ponzi schemes and online trade in illicit goods and services across borders. These and other controversies surrounding cryptocurrencies have induced varying governance responses by central banks, government ministries, international organizations, and industry regulators worldwide. Besides formal attempts to ban Bitcoin, there have been multifaceted efforts to incorporate elements of blockchains, the peer-to-peer technology underlying cryptocurrencies, in the wider exchange, recording, and broadcasting of digital transactions. Blockchains are being mobilized to support and extend an array of governance activities. The novelty and breadth of growing blockchain-based activities have fuelled both utopian promises and dystopian fears regarding applications of the emergent technology to Bitcoin and beyond. This volume brings scholars of anthropology, economics, Science and Technology Studies, and sociology together with GPE scholars in assessing the actual implications posed by Bitcoin and blockchains for contemporary global governance. Its interdisciplinary contributions provide academics, policymakers, industry practitioners and the general public with more nuanced understandings of technological change in the changing character of governance within and across the borders of nation-states.

Cryptocurrency Mining-Devan Hansel 2018-02-19 Learn the fundamentals of Cryptocurrency Mining and how to mine profitable coins. Ever since Bitcoin got released in 2009, the Cryptocurrency market has been exploding with new coins and platforms every week. Many crypto investors and traders are earning up to 3000% profits on their investments. Billions of dollars of wealth is being created. This is a fact. And experts predict that the total market cap will reach \$1 Trillion soon. Amidst this revolution, very few people are aware of the fact that cryptocurrencies can be mined. And even few know how to do it right. Mine the right cryptocurrency and you can retire in 2 years! In this book, best-selling author Devan Hansel teaches you the exact step-by-step methods to build your own cryptomining rig! You will also learn what a blockchain is, how mining is related to it and what role a miner plays in the big picture of cryptocurrencies. After reading the book, you will be able to quickly arrange a mining setup(hardware and software) from your home and start mining profitable cryptocurrencies. Among other things, you will learn: How Cryptocurrency and Blockchain work Detailed Overview of the Mining Process Various options available for Bitcoin & Altcoin Mining Mining Hardware and Software How to Pick Profitable Coins to mine Challenges involved in Mining & How to overcome them Future of Cryptocurrency & Mining The era of cryptocurrencies has only begun. Numerous Silicon Valley giants, Billionaires, Tech moguls are going gaga about this new breakthrough. For the first time in history, a decentralized digital currency is openly available in the market. And you can mine it, get rich in the process and be a part of this movement. 10 years from now, you will either look back at this time and feel sad or you will feel glad that you took action and seized the opportunity. Get the book Today! Scroll up and click on the "Buy Now" button.

Crypto Asset Investing in the Age of Autonomy-Jake Ryan 2020-12-03 Competition, the drive for efficiency, and continuous improvement ultimately push businesses toward automation and later towards autonomy. If a business can operate without human intervention, it will minimize its operational cost. If Uber can remove the expense of a driver with an autonomous vehicle, it will provide its service cheaper than a competitor who can't. If an artificially intelligent trading company can search, find, and take advantage of some arbitrage opportunity, then it can profit where its competitors cannot. A business that can analyze and execute in real-time without needing to wait for a human to act, is a business that will be able to take advantage of brief inefficiencies from other markets or businesses. This trend following a thesis that is based on 100 years of proven economic theory. Short-wave economic cycles, those 5- to 10-year cycles, are driven by credit but the long-wave economic cycles, those 50- to 60-year cycles, are driven by technological revolution. We've had 5 cycles over the past 200 years with the last wave, the Age of Information & Telecommunications. We've seen evidence that a new cycle has begun. Technological revolutions come by way of a cluster of new innovations. About a decade ago, you started to see AI, robotics and IoT (sensors) delivering on automation. That's been powerful, but not transformational. It does not force businesses to fundamentally change how they do business. The last piece of the puzzle was cryptocurrency because it allows us to process and transfer economic value without human intervention. Soon, there will be a global race to build autonomous operations. Businesses and organizations without autonomous

operations simply will not be able to compete with those that do because ... autonomy is the ultimate competitive advantage. Crypto is the mechanism that will accrue value from being the infrastructure for the next digital financial revolution. Crypto Asset Investing lays out a case that we've begun a new technological revolution similar to the Internet Age of the 1990's. Artificial intelligence, the Internet of Things, robotics and cryptocurrency are converging to deliver on a new age, what I call the Age of Autonomy. Understanding the transformation that's taken place before anyone else can yield enormous investment opportunity. In this book, you'll learn how and why to invest in crypto assets.

The WEALTHTECH Book-Susanne Chishti 2018-07-23 Get a handle on disruption, innovation and opportunity in investment technology The digital evolution is enabling the creation of sophisticated software solutions that make money management more accessible, affordable and eponymous. Full automation is attractive to investors at an early stage of wealth accumulation, but hybrid models are of interest to investors who control larger amounts of wealth, particularly those who have enough wealth to be able to efficiently diversify their holdings. Investors can now outperform their benchmarks more easily using the latest tech tools. The WEALTHTECH Book is the only comprehensive guide of its kind to the disruption, innovation and opportunity in technology in the investment management sector. It is an invaluable source of information for entrepreneurs, innovators, investors, insurers, analysts and consultants working in or interested in investing in this space. • Explains how the wealth management sector is being affected by competition from low-cost robo-advisors • Explores technology and start-up company disruption and how to delight customers while managing their assets • Explains how to achieve better returns using the latest fintech innovation • Includes inspirational success stories and new business models • Details overall market dynamics The WealthTech Book is essential reading for investment and fund managers, asset allocators, family offices, hedge, venture capital and private equity funds and entrepreneurs and start-ups.

The Rise of Digital Money-Mr.Tobias Adrian 2019-07-15 This paper marks the launch of a new IMF series, Fintech Notes. Building on years of IMF staff work, it will explore pressing topics in the digital economy and be issued periodically. The series will carry work by IMF staff and will seek to provide insight into the intersection of technology and the global economy. The Rise of Digital Money analyses how technology companies are stepping up competition to large banks and credit card companies. Digital forms of money are increasingly in the wallets of consumers as well as in the minds of policymakers. Cash and bank deposits are battling with so-called e-money, electronically stored monetary value denominated in, and pegged to, a currency like the euro or the dollar. This paper identifies the benefits and risks and highlights regulatory issues that are likely to emerge with a broader adoption of stablecoins. The paper also highlights the risks associated with e-money: potential creation of new monopolies; threats to weaker currencies; concerns about consumer protection and financial stability; and the risk of fostering illegal activities, among others.

The Bitcoin Big Bang-Brian Kelly 2014-11-24 Get a handle on the digital currency revolution, and learn how to get on board The Bitcoin Big Bang is a guide to navigating the uncharted territory of digital currency. Written by CNBC contributor Brian Kelly, this book goes beyond Bitcoin 101 to explain how this transformative technology is about to change the world. Digital currency is thrown into perspective against the history of payment systems and its own evolution, as readers are invited to explore the ways in which this technology is already changing the way business gets done. Readers gain insight into the mechanisms behind Bitcoin, and an expert perspective on digital currency's effect on the future of money and the economic implications of the Bitcoin revolution. In the same way that e-mail changed the way we transfer information, the decentralized Bitcoin network is about to revolutionize the business world, the legal profession, and even the role of the government. The Bitcoin Big Bang dives head first into this paradigm shift, allowing readers to: Explore the origins of digital currency Learn the history and evolution of payment systems Discover how the Bitcoin network is facilitating free and instant transfer of value Understand the mining of Bitcoin, and how to invest The digital currency revolution has implications that spread far beyond the finance industry. Anyone who exchanges payment for goods and services is on the cusp of the next big push in societal evolution, and only an understanding of the technology and a clear knowledge of the systems and behaviors at play can fully prepare us for the changes to come. The Bitcoin Big Bang is the go-to guide, helping those who use money use it better.

A Beginners Guide to BITCOIN AND AUSTRIAN ECONOMICS-Aaron Koenig 2015-12-05 In 1976, Nobel Prize Laureate Friedrich August von

Hayek called for the abolishment of the state monopoly on money and the introduction of freely competing currencies. Few people could imagine such a free market of money at the time. Today the denationalization of money is in full swing: digital currencies like Bitcoin are fully independent of banks and governments. This book explains the phenomenon of decentralized, stateless money in an easily understandable and entertaining way. It also provides a basic insight into the Austrian School of Economics. The Austrian School's most prominent masterminds, Ludwig von Mises, Friedrich August von Hayek and Murray N. Rothbard, have explained why we must overcome our present debt-based monetary system, which widens the gap between the rich and the poor. Bitcoin is the world's first global payment system that is open to anyone on this planet with Internet access. Payments are cheap, fast and cannot be blocked. With interviews of Bitcoin experts Roger Ver - Stephanie Murphy - Moran Shaked - Eddy Travia - Julia Touranski - Marek Palatinus - David Johnston - Susanne Tarkowski Tempelhof - Satoshi Nakamoto.

The Crypto Trader-Glen Goodman 2019-05-20 The real-life trades and strategies of a successful cryptocurrency trader Glen Goodman's goal was to retire young and wealthy, escaping the daily grind. He taught himself how to trade everything from shares to Bitcoin and made enough money to realise his dream and quit his day job while still in his 30s. In *The Crypto Trader*, Glen will show you exactly how he made huge profits trading Bitcoin, Ethereum, Ripple and more, so that you can do it too - without risking your shirt. Glen publicly called the top of the market in December 2017 and took his profits before the crash. But there are still tons of trading opportunities out there and Glen continues to trade crypto successfully. Inside you'll see his multi-hundred-percent gains on a raft of cryptocurrencies and learn how he builds his profits and holds onto them. Glen reveals all his trading strategies, the proven methods and rules that make him one of the most followed traders in the world on social media. (He is also frequently interviewed by the BBC, Forbes and LBC, and is a contributing expert on cryptocurrency at the London School of Economics.) It took Glen years of study and trial and error to become a consistent money maker. He learnt his trading lessons the hard way - so you don't have to. With *The Crypto Trader* by your side, you'll learn how to grab opportunities, make money - and keep it.

Bitcoin and Blockchain-Sandeep Kumar Panda 2020-09-22 In recent years, blockchain development has grown quickly from the original Bitcoin protocol to the second-generation Ethereum platform, and to today's process of building third-generation blockchains. During this evolution, we can see how blockchain technology has evolved from its original form as a distributed database to becoming a fully fledged, globally distributed, cloud computing platform. This book traces the past, present, and future of blockchain technology. Presents the knowledge and history of Bitcoin Offers blockchain applications Discusses developing working code for real-world blockchain applications Includes many real-life examples Covers the original Bitcoin protocol to the second-generation Ethereum platform *Bitcoin and Blockchain: History and Current Applications* is a useful reference for students, business schools, research scholars, practitioners, and business analytics professionals.

Inclusive FinTech-Lee David Kuo Chuen 2018-06-21 Cryptocurrency market has been growing fast since its emergence in recent years. Moreover, digital finance has forged the convergence of profit motives with social objectives creating a class of large FinTech companies. In addition, the underlying technology innovation may be applied to a wide range of industries, not limited to financial sector. Yet, few researches have been done to study these phenomena. Hence, it is the task of this book to shed light on the introduction and trends in FinTech, blockchain and token sales. Richly illustrated with original lecture slides taught by the authors, *Inclusive FinTech: Blockchain, Cryptocurrency and ICO* hopes to dispel the many misconceptions about blockchain and cryptocurrencies (especially bitcoin, Initial Crypto-Token Offering or ICO), as well as the idea that businesses can be sustainable without a social dimension going forward. With comprehensive coverage given to the FinTech scene in Asia, it is targeted at those who are searching for business opportunities. Most important of all, this book seeks to change the mindset of a whole new generation that is familiar with digital economy and yearns for a more just and equitable world.

Blockchain-Mark Gates 2017-06 "Blockchain technology has been called the greatest innovation since the internet. Governments and companies are rushing to implement blockchain technology in a range of areas that could impact every person on the planet within a few years. Is blockchain technology one of the greatest technological revolutions in history or is it just hype? Will blockchain technology cause governments and banking

systems to change the way they process information or will it be business as usual? In this book, we'll look at the answers to these questions along with addressing the different sides of the arguments, for and against, blockchain technology."--Page 4 de la couverture.

Bitcoin Guru-Stefano Esposito 2019-02-08 This book is a step by step guide for those who are starting to get interested in Bitcoin and Cryptocurrencies. By reading it you will learn: How to create a cryptocurrency wallet How to buy your first Bitcoins How to open an account on an Exchange platform How to trade Bitcoins with other Cryptocurrencies How to cash out and turn Crypto into Fiat currency How to stay away from scams and Ponzi schemes We will not make too many preambles but, after a short introduction, we will dive straight into the practice of buying Bitcoins, exchange them with other Cryptocurrencies and eventually reconvert these Crypto into Fiat money. After the tutorial regarding the trading of Cryptocurrencies you will find sections about the dangers related to cryptocurrencies world such as Ponzi schemes and Pump and Dump groups, and we will also go through the most common psychological attitudes that can act as an obstacle to the Trader. Bitcoin is the most widespread cryptocurrency in the world, created in 2009 by Satoshi Nakamoto, a pseudonym that many consider hiding a group of subjects who gave life to this currency. The main feature is the absence of a central authority that monitors, controls, influences and determines the circulation of this virtual currency. The system on which it is based is peer to peer, the same used for the exchange of files between users all over the world. Unlike most traditional currencies, Bitcoin does not use a Central network or sophisticated financial mechanisms and its value is solely given by supply and demand. To trace transactions, Bitcoin uses a database distributed among the nodes of the network, so it is a peer to peer and uses cryptography to manage functional aspects such as the generation of new money and the attribution of property. The Bitcoin network allows the anonymous possession and transfer of coins, the data necessary to use their own Bitcoins can be saved on their computers or electronic devices in the form of a digital wallet or they can be maintained by third parties that perform a function similar to that of a bank. Bitcoins can be transferred over the internet to anyone with a Bitcoin address, also called a wallet. The decentralized structure of the Bitcoin network and therefore the lack of a central body makes it impossible for any authority, any government, the blocking of transfers, the seizure of Bitcoins without the possession of the related private keys, or even the devaluation due to the entry of new currency. In order to stop using the same coin twice its creator Satoshi Nakamoto has developed a server-based opening time marking system that assigns sequential identifiers to each of the transactions that are then strengthened against change attempts using the idea of a chain of proof-of-work that is of successive confirmations. Each time a transaction is made, this part from the unconfirmed state will only be confirmed when it is verified through a collectively managed time stamp list of all known transactions, the chain of blocks or blockchain. So... It's a real revolution! Despite its incredible volatility, Bitcoin can be considered an asset, and there are even those who define it as a new asset-haven just like gold! If you are reading these words it means that you are definitely interested in investing in this field. So let's roll up our sleeves and let's embark on this journey! Happy trading!

The Bitcoin Standard-Saifedean Ammous 2018-03-23 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.

An Altcoin Trader's Handbook-Nik Patel 2018-06-06 No doubt you will have seen or heard about the fervour that surrounded cryptocurrencies in 2017, and many of you may have dismissed them as a legitimate asset class; many may have felt a quiet interest but a looming fear; others undoubtedly felt drawn towards the allure of cryptocurrencies and altcoins (and any of the other innumerable names) yet lacked the framework required to tame this volatile and novel market. To you, I present An Altcoin Trader's Handbook: The exponential growth of the cryptosphere over the previous half-decade has brought with it a plethora of life-changing speculative opportunities. Where traditional financial markets seem inaccessible and ineffectual due to the prevalence of high fees and low returns, the emergence of a worldwide market of decentralised alternatives to Bitcoin allows for those unable (or unwilling) to navigate the often-slippery world of hedge funds and investment banks the chance to realise financial freedom. This, of course, is no effortless journey, and this book does not profess to be a get-rich-quick scheme of any sort. Instead, An Altcoin Trader's Handbook merges almost five years of tragicomic yet insightful anecdotes on the ever-evolving nature of the cryptosphere with a comprehensive strategy for profitable altcoin speculation. The book focuses on maximising the upside potential of capital whilst diminishing downside risks, both of which are possible with speculation on so-called 'microcap' and 'lowcap' altcoins, given the application of proper risk management. Above all, the reader will learn, in exhaustive detail, the three-stage process of research, accumulation and distribution that has been the bedrock of my own success in the space. The journey will be intensive - often arduous - but will, with some good fortune, result in an individual most well-equipped to capitalise on the greatest glut of financial opportunity the world has ever seen.

The REGTECH Book-Janos Barberis 2019-08-06 The Regulatory Technology Handbook The transformational potential of RegTech has been confirmed in recent years with US\$1.2 billion invested in start-ups (2017) and an expected additional spending of US\$100 billion by 2020. Regulatory technology will not only provide efficiency gains for compliance and reporting functions, it will radically change market structure and supervision. This book, the first of its kind, is providing a comprehensive and invaluable source of information aimed at corporates, regulators, compliance professionals, start-ups and policy makers. The REGTECH Book brings into a single volume the curated industry expertise delivered by subject matter experts. It serves as a single reference point to understand the RegTech eco-system and its impact on the industry. Readers will learn foundational notions such as: • The economic impact of digitization and datafication of regulation • How new technologies (Artificial Intelligence, Blockchain) are applied to compliance • Business use cases of RegTech for cost-reduction and new product origination • The future regulatory landscape affecting financial institutions, technology companies and other industries Edited by world-class academics and written by compliance professionals, regulators, entrepreneurs and business leaders, the RegTech Book represents an invaluable resource that paves the way for 21st century regulatory innovation.

Blockchain By Example-Bellaj Badr 2018-11-30 This book covers all the relevant concepts and phases of the blockchain development cycle. It will walk you through a step-by-step process to build three blockchain projects with differing complexity levels and hurdles. By the end of this book, you will be ready to tackle common issues in the blockchain ecosystem.

Attack of the 50 Foot Blockchain-David Gerard 2017-07-24 An experimental new Internet-based form of money is created that anyone can generate at home; people build frightening firetrap computers full of video cards, putting out so much heat that one operator is hospitalised with heatstroke and brain damage. A young physics student starts a revolutionary new marketplace immune to State coercion; he ends up ordering hits on people because they might threaten his great experiment, and is jailed for life without parole. Fully automated contractual systems are proposed to make business and the law work better; the contracts people actually write are unregulated penny stock offerings whose fine print literally states that you are buying nothing of any value. The biggest crowdfunding in history attracts \$150 million on the promise that it will embody "the steadfast iron will of unstoppable code"; upon release it is immediately hacked, and \$50 million is stolen. How did we get here? David Gerard covers the origins and history of Bitcoin to the present day, the other cryptocurrencies it spawned including Ethereum, the ICO craze and the 2017 crypto bubble, and the attempts to apply blockchains and smart contracts to business. Plus a case study on blockchains in the music industry. Bitcoin and blockchains are not a technology story, but a psychology story. Remember: if it sounds too good to be true, it almost certainly is. "A sober riposte to all the upbeat forecasts about cryptocurrency" — New York Review of Books "A very convincing takedown of the whole phenomenon" — BBC News

The Basics of Bitcoins and Blockchains-Antony Lewis 2018-08-31 Understand Bitcoin, Blockchains, and Cryptocurrency "Antony helps us all clearly understand the mechanics of bitcoin and blockchain." ?Rob Findlay, Founder, Next Money #1 Best Seller in Investing Derivatives 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 provides a 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 including the history of Bitcoin, the Bitcoin blockchain, and Bitcoin buying, selling, and mining. And, learn how payments are made, and how one puts a value on cryptocurrencies and digital tokens. Blockchain technology. What exactly is a blockchain, how does it work, and why is it important? The Basics of Bitcoins and Blockchains answers 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 into 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. Learn about: Blockchain technology and how it works The workings of the cryptocurrency market The evolution and potential impacts of Bitcoin and blockchains on global businesses You may have read books such as Blockchain Bubble or Revolution, Cryptoassets, Blockchain Technology Explained, Blockchain Revolution, The Bitcoin Standard, Mastering Bitcoin, or Bitcoin For Dummies, but to really understand the technology it's time to read The Basics of Bitcoins and Blockchains.

Cryptocurrency Trading-Crypto Tech Academy 2018-02-08 Learn the Investment Strategies to Start Cashing In on Cryptocurrencies Are you interested in investing in cryptocurrencies, like Bitcoin and Altcoin, but don't know where to start? Are you new to cryptocurrency trading and need to learn the ropes? In A Complete Beginners Guide to Cryptocurrency Investing, you will learn everything you need to know to start investing your money in cryptocurrencies and start cashing in on this digital currency revolution! Understand the differences between the more popular cryptocurrencies in today's market. Learn how to buy and sell and discover investment strategies to take your investing to the next level. Don't wait, grab your copy today and start investing in your future. What You Will Learn What Cryptocurrency Is How Blockchain Works Understanding the Existing Cryptocurrencies Different Investment Strategies Long-Term vs Short-Term Coin Storage And So Much More! Grab your copy today!

Crypto-Steven Levy 2001-01-08 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.

Cryptofinance and Mechanisms of Exchange-Stéphane Goutte

2020-01-03 This book describes how the rapid advancement in encryption and network computing gave birth to new tools and products that have influenced the local and global economy alike. One recent and notable example is the emergence of virtual currencies (such as Bitcoin) also known as cryptocurrencies. Virtual currencies introduced a fundamental transformation that affected the way goods, services and assets are exchanged. As a result of its distributed ledgers based on blockchain, cryptocurrencies not only offer some unique advantages to the economy, investors, and consumers, but also pose considerable risks to users and challenges for regulators when fitting the new technology into the old legal

framework. The core of this proposed book is to present and discuss the evidence on financial asset capabilities of virtual currencies. The contributors of this volume analyze several interesting and timely issues such as the particularities of virtual currencies and their statistical characteristics; the diversification benefits of virtual currencies; the behavior and dependence structure between virtual currencies and the financial markets; the economic implications of virtual currencies, their effects, their price risk, and contagion spillovers in a unified and comprehensive framework; the future of virtual currencies and their distributed ledgers technology.