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SUMMARY - Blockchain Revolution: How The Technology Behind Bitcoin And Other Cryptocurrencies Is Changing The World By Don Tapscott And Alex Tapscott
The Blockchain and the New Architecture of Trust
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ALBERT SANTOS

Blockchain Revolution Technology Explained

Springer Nature

'This book has had an enormous impact' Satya Nadella, CEO, Microsoft 'Spectacular. Mind-blowing in its expansiveness and profundity' Steve Wozniak, co-founder of Apple 'Iconic' Clay

Christensen, author of The Innovator's Dilemma Cryptocurrencies are changing the world. They grant everyday people the power to invest, disrupt the world order and contribute towards a better future. Blockchain is the ingeniously simple technology that powers cryptos. It is a public ledger to which everyone has access, but which no single person or institution controls. It allows for companies and individuals to collaborate with an unprecedented degree of trust and transparency. It is cryptographically secure, but fundamentally open. And it is everywhere. In Blockchain Revolution, Don and Alex Tapscott reveal: · how this game-changing technology is re-shaping the global economy · how it is improving everything from healthcare records to online voting · how people everywhere are using it to side-step institutional barriers and take control of their future Brilliantly researched and highly accessible, this is the essential text on this major paradigm shift. Read it, or be left behind.

Industry Use Cases on Blockchain Technology Applications in IoT and the Financial Sector IGI Global Blockchain technology presents numerous advantages that include increased transparency, reduced transaction costs, faster transaction settlement, automation of information, increased traceability, improved customer experience, improved digital identity, better cyber security, and user-controlled networks. These potential

applications are widespread and diverse including funds transfer, smart contracts, e-voting, efficient supply chain, and more in nearly every sector of society including finance, healthcare, law, trade, real estate, and other important areas. However, there are challenges and limitations that exist such as high energy consumption, limited scalability, complexity, security, network size, lack of regulations, and other critical issues. Nevertheless, blockchain is an attractive technology and has much to offer to the modern-day industry. Industry Use Cases on Blockchain Technology Applications in IoT and the Financial Sector investigates blockchain technology's adoption and effectiveness in multiple industries and for the internet of things (IoT)-based applications, presents use cases from industrial and financial sectors as well as from other transaction-based services, and fills a gap in this respect by extending the existing body of knowledge in the suggested field. While highlighting topics such as cybersecurity, use cases, and models for blockchain implementation, this book is ideal for business managers, financial accountants, practitioners, researchers, academicians, and students interested in blockchain technology's role and implementation in IoT and the financial sector.

The Truth Machine

Springer Nature

This book explores

blockchain technology's impact on banks, particularly how blockchain technology can create new opportunities for banks and poses new threats to their business. The digital revolution in the banking industry, whose customers are increasingly adapting to new technologies and new types of competitors and solutions arising in the space, has had a significant impact on the banking industry over the past few years, requiring banks to substantially rethink their business models and strategies in order to cope with these developments. The rise of blockchain's distributed ledger technology (DLT) has also played an important role since it has the potential to change the whole banking industry in faster and more disruptive ways than ever before. Born as the technology underlying Bitcoin, which has been used to allow the recording of cryptocurrencies transactions, blockchain can facilitate the process of recording any transaction type and track the movement of any asset, finding application in many different areas. Specifically, it has been acknowledged as a disruptive force in the financial sector and a key source of future financial market innovation with the potential to reshape existing business models in the financial services industry. Regarding the banking industry in particular, existing literature suggests that blockchain poses new challenges and generates opportunities as well as

threats. This is pushing banks to rethink their operations, business models and strategies. However, literature in this regard is still in its infancy, and we do not yet have a clear understanding of blockchain technology's potential implications for banks. This book expands the literature on blockchain technology in banking by providing new insights into the developments, trends and challenges of blockchain in the banking industry. In particular, sheds more light on the implications of blockchain technology for banks by discussing the advantages and disadvantages related to this technology and exploring its potential impact on traditional banking business models.

Financial Services Revolution Shortcut Edition

Blockchain technology continues to disrupt a wide variety of organizations, from small businesses to the Fortune 500. Today hundreds of blockchain networks are in production, including many built with Hyperledger Fabric. This practical guide shows developers how the latest version of this blockchain infrastructure provides an ideal foundation for developing enterprise blockchain applications or solutions. Authors Matt Zand, Xun Wu, and Mark Anthony Morris demonstrate how the versatile design of Hyperledger Fabric 2.0 satisfies a broad range of industry use cases. Developers with or without previous Hyperledger experience

will discover why no other distributed ledger technology framework enjoys such wide adoption by cloud service providers such as Amazon, Alibaba, IBM, Google, and Oracle. Walk through the architecture and components of Hyperledger Fabric 2.0 Migrate your current Hyperledger Fabric projects to version 2.0 Develop blockchain applications on the Hyperledger platform with Node.js Deploy and integrate Hyperledger on Amazon Managed Blockchain, IBM Cloud, and Oracle Cloud Develop blockchain applications with Hyperledger Aries, Avalon, Besu, and Grid Build end-to-end blockchain supply chain applications with Hyperledger

Architectures and Frameworks for Developing and Applying Blockchain Technology Academic Press

The COVID-19 pandemic has taken precious lives and devastated the global economy. It has also revealed chinks in our supply chains. Not only have manufacturers found themselves scrambling unsuccessfully to find new suppliers when their Asian sources shut down, but the Western world has experienced across-the-board shortages of essential consumer packaged goods for the first time in decades. Blockchain technology has the potential to minimize these kinds of pandemic disruptions. In this book, some of the world's top experts show how blockchain--in combination with other

innovations such as additive manufacturing, artificial intelligence, and the Internet of Things--can address longstanding problems that make the business of getting goods to customers so slow and expensive, especially in crises. Today's supply chains are complex, as they move resources through trucks, planes, boats, and trains. Too many parties rely on a hodgepodge of documents and intermediaries to do business, which make the whereabouts and custody of goods unclear. That's why, in a pandemic, uninformed consumers might reasonably believe that toilet paper won't be available for many months. Enter blockchain--the Internet of Value. For the first time in human history, individuals and organizations can manage and trade their assets digitally peer to peer. In doing so, they will reinvent global commerce and how we exchange value. This will transform the best practices of operations, logistics, procurement and purchasing, transportation, customs and border control, trade finance and insurance, manufacturing, and inventory management. Global supply chains are ripe for disruption at every level and in every role. Supply Chain Revolution identifies what leaders should be doing now to prepare their organizations for the inevitable decentralized future. Enterprise executives and entrepreneurs alike will find ideas and opportunities to discuss

with their stakeholders and decide how best to participate in the blockchain revolution.

Integrating Blockchain Technology Into the Circular Economy

Christopher Blackburn

In January 2009, a mysterious software developer, Satoshi Nakamoto, exchanged a specially designed code with another developer. The code was a digital currency that Nakamoto had proposed several months before in a paper titled “Bitcoin: A Peer-to-Peer Electronic Cash System.” This was the first Bitcoin transaction. Since then, Bitcoin has become the face of a tech revolution in digital cryptocurrencies based on blockchain technology. Its success has sparked a tech revolution that could fundamentally change global economics. Author Brendan January delves into the world of coders, libertarians, criminals, financial regulators, and crypto-detectives to understand what digital cryptocurrencies have to offer, their limitations and potential pitfalls, security issues, and how they may affect government and financial regulations in the future.

Blockchain and Web 3.0

Penguin UK

How the blockchain—a system built on foundations of mutual mistrust—can become trustworthy The blockchain entered the world on January 3, 2009, introducing an innovative new trust architecture: an environment in which users trust a system—for example, a shared ledger of information—without necessarily trusting any of

its components. The cryptocurrency Bitcoin is the most famous implementation of the blockchain, but hundreds of other companies have been founded and billions of dollars have been invested in similar applications since Bitcoin's launch. Some see the blockchain as offering more opportunities for criminal behavior than benefits to society. In this book, Kevin Werbach shows how a technology resting on foundations of mutual mistrust can become trustworthy. The blockchain, built on open software and decentralized foundations that allow anyone to participate, seems like a threat to any form of regulation. In fact, Werbach argues, law and the blockchain need each other. Blockchain systems that ignore law and governance are likely to fail, or to become outlaw technologies irrelevant to the mainstream economy. That, Werbach cautions, would be a tragic waste of potential. If, however, we recognize the blockchain as a kind of legal technology that shapes behavior in new ways, it can be harnessed to create tremendous business and social value.

Enabling the Internet of Value Portfolio

This book intersects the distributed ledger technology (DLT) community with the international security community. Given the increasing application of blockchain technology in the fields of business and international development, there is a growing body of study on

other use cases. For instance, can blockchain have a significant role in preserving and improving international security? This book explores this question in the context of preventing the proliferation of some of the most dangerous materials in the world—items that if not secured can lend to the development of weapons of mass destruction. It considers how blockchain can increase efficiencies in the global trade of nuclear and chemical materials and technology, thereby increasing assurances related to compliance with international nonproliferation and disarmament treaties.

Blockchain Revolution

Portfolio Canada

Mobile computing and wireless technology have grown at a phenomenal rate in recent years, and so has artificial intelligence. The most advanced software applications that the world ever witnessed can be realized through a combined aspect of these disciplines, capable of delivering high level support to various industry sectors and to people’s quality of life in general. Currently, many countries are facing challenges from the COVID-19 pandemic. One of the most impacted industries by the pandemic is that of tourism and hospitality. It is time to explore and leverage the power of mobile and wireless intelligence to assist with the recovery of the tourism and hospitality sector during and after the pandemic, which

constitutes a need for relevant research in the field. Mobile Computing and Technology Applications in Tourism and Hospitality presents the latest research and development in mobile and intelligent computing with a focus on tourism and hospitality sectors. The chapters discuss the role of research on innovative technologies and applications for resilience to return the tourism and hospitality industry back to its normal state. This includes research on topics such as sensor-based technology, smart tourism, virtual and augmented reality, mobile travel applications, and more. This book is ideal for managers, executives, museum and cultural heritage specialists, app developers, IT consultants, tourism and hospitality professionals, researchers, academicians, and students.

Chain Reaction Springer Nature

"I'll walk you through the essentials of how Blockchain technology works, using simple explanations and giving examples along the way. I've introduced many people to blockchain, so I know where beginners usually get confused and the main questions they have. All of the basic principles are addressed step-by-step in this book." -- Provided by publisher.

Applications of Blockchain Technology in Business Springer Nature

Amidst the constant stream of overly technical and excitable books heralding a blockchain revolution that’s destined

to be more disruptive than the Internet, this book stands apart for its more nuanced take, focusing on the potential for these new technologies to change developing countries for the better. Chain Reaction divides the world into two: for some, blockchain seems a poor substitute for an efficient banking and regulatory system in which transactions are settled instantly and contracts are underpinned by solid institutions. For others, it will be truly life-changing – namely those living in countries where rule of law is weak, concepts of ownership are vague and, consequently, trust in institutions is in scarce supply. With blockchain, we are about to witness a leapfrogging – one that will bring the next billion emerging consumers into the formal economy by creating reliable institutions of contract, ownership and trust among people previously denied such luxuries. The authors humanize the technology by taking the reader on a global journey through a multitude of applications – from registering property to voting and delivering aid. In place of the usual abstract lessons in complex technology, this book is instead filled with lively anecdotes of places where trust is so weak that a crisp dollar bill sells at a premium to a better-used version. The book's goal is to create the first truly approachable, entirely comprehensible and enjoyable read on the wonders to come from blockchain.

Wikinomics McGraw Hill Professional

Blockchain technology is the buzzword in the world of computer science, but it won't stay limited there for long. It is the concept that has the financial world scrambling to catch up. Whether you are an investor or a private citizen, Blockchain is going to mean a lot to you in the future, hailed by some as the second coming of the Internet. So what is it? And what can you do to get involved? This book will introduce you to the basics of Blockchain technology and equip you with the knowledge to get on the cutting edge of this astounding development. You will learn The historical development of this technology A nuanced technical understanding of the primary components of the Blockchain network The difference between Bitcoin Blockchain and Blockchain 2.0, the technology that will shape the future The main issues facing Blockchain technology that will shape the debates around it in the coming years And much more... Learn What You Need to Know About The Blockchain Revolution! Blockchain is far more than Bitcoin technology, and even in its infancy, it is taking the world by storm, from major banks to the U.S. Department of Defense. Get in on the disruptive technology and harness its potential today.

Blockchain for International Security IGI Global

Title: Blockchain Revolution Subtitle: Global Disruptive Technology Table of Contents I. FUNDAMENTALS 1. Key

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How Will Blockchain Change The World John Wiley & Sons

The blockchain revolution has drastically impacted global economics and the strategic practices within different industries. Cryptocurrency specifically has forever

changed the face of business and the implementation of business online. While innovative, people are still in the early stages of building and developing blockchain technology and its applications, and it is critical that researchers and practitioners obtain a better understanding of this global phenomenon. Architectures and Frameworks for Developing and Applying Blockchain Technology is an essential reference source that presents the technological foundation, recent research findings, developments, and critical issues associated with blockchain technology from both computer science and social science perspectives. Featuring topics such as artificial intelligence, digital economy, and network technology, this book is ideally designed for academics, researchers, industry leaders, IT consultants, engineers, programmers, practitioners, government officials, policymakers, and students.

Platform Revolution

Blockchain Research Institute

"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.

Platform Revolution Paris Ezequiel Bianco

The first book to explain why blockchain technology will fundamentally change the Internet, what it does, and how we use it Over the past 30 years, no theorist of the digital age has better explained the next big thing than Don Tapscott. For example, in Wikinomics, Tapscott was the first to show how the Internet provides the first global platform for mass collaboration. Now, he writes about a profound technological shift that will change how the world does business--and everything else--using blockchain technology, which powers the digital currency Bitcoin. The Internet as we know it is great for collaboration and communication, but is deeply flawed when it comes to commerce and privacy. The new blockchain technology facilitates peer-to-peer transactions without any intermediary such as a bank or governing body. Keeping the user's information anonymous, the blockchain validates and keeps a permanent public record of all transactions. That means that your personal information is private and secure, while all activity is transparent and incorruptible--reconciled by mass collaboration and stored in code on a digital ledger. With its advent, we will not need to trust one another in the traditional sense, because

trust is built into the system itself. Although many opportunities for the blockchain require a digital currency, Bitcoin is only one application of this great innovation in computer science. The blockchain can hold any legal document, from deeds and marriage licences to educational degrees and birth certificates. Call it the World Wide Ledger. It enables smart contracts, decentralized autonomous organizations, decentralized government services, and transactions among things. The Internet of Everything needs a Ledger of Everything: the blockchain is a truly open, distributed, global platform that fundamentally changes what we can do online, how we do it, and who can participate. Tapscott, writing with his son Alex, a financial analyst and technologist, argues that the blockchain will shape the next era of prosperity--in finance, business, healthcare, education, governance, and beyond. Blockchain and Banking Createspace Independent Publishing Platform A comprehensive and authoritative exploration of Bitcoin and its place in monetary history 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 people 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 an invention of the digital age, the problem it purports to solve is as old as human society itself: transferring value across time and space. Author Saifedean 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 the 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 knockoffs, and the many supposed applications of Bitcoin's 'block chain 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.

Blockchain Technology and Computational Excellence for Society 5.0

John Wiley & Sons

BLOCKCHAIN! The Complete Guide to Uncovering Bitcoin, Cryptocurrency, Blockchain Technology and the Futrue of Money The Blockchain Revolution Series Discover what exactly Blockchain is, what Cryptocurrency is and what Bitcon is. Learn how to use this technology to your advantage. Also learn what the future of money looks like with these new developments. This book is a collection of the two books Blockchain: Uncovering Blockchain Technology, Cryptocurrencies, Bitcoin and the Future of Money: Blockchain and Cryptocurrency Exposed by Alan Wright AND Cryptocurrency: How to Make a Lot of Money Investing and Trading in Cryptocurrency: Unlocking the Lucrative World of Cryptocurrency by Andrew Johnson. The Blockchain revolution has arrived and is here to stay! Remember how fast smart phones evolved and these days if you do not have one you feel you arer missing out?

Blockchain technology which fuels cryptocurrency is a revolution at the same level as smart phones once was! Did you know that a $100 investment in a cryptocurrency could have made you over $400,000? This book Blockchain: is an in-depth guide on blockchain technology and cryptocurrency (including bitcoin). You will be amazed what is uncovered in this book! Did you know you can make a 10,000% return on your investment with cryptocurrency? Are you ready to for the secretive and lucrative world of cryptocurrency to be unlocked with this book? Inside you will find: An easy to understand breakdown of blockchain, the foundational technology at the heart of all major cryptocurrencies. A detailed explanation of how cryptocurrencies lose and gain value and how you can put these methods to work for you. Easy ways to get started investing in cryptocurrencies and everything you will need in order to do so effectively. Recommendations on the major cryptocurrencies to watch moving forward. A step by step guide to getting started mining cryptocurrencies and making money off of other people''s transactions. The best tips for staying one step ahead of the scammers out there who are looking to steal your hard-earned cryptocurrency A look to the future including how major governments are looking to take control of

cryptocurrency for their own ends. An explanation of Blockchain technology, designed for beginners and written by an expert Tips and strategies to earn real income through Blockchain backed currencies A guide designed around the concept of teaching others how to realize profits from cryptocurrencies A list of the best currencies to invest in, with advice about where to start and how to make the greatest possible profit A detailed explanation of how to create a mining rig, along with everything you need to know about the hardware and components, including the associated costs. AND MUCH MUCH MORE... If you are curious and serious about learning about blockchain technology and cryptocurrency and want to invest in t

Blockchain Penguin Blockchain is the most disruptive technology to emerge in the last decade. The evolution of cryptocurrencies has carried with it a revolution in digital economics that has catapulted the application of blockchain technology to a new level across a variety of industries, including banking, security, networking, and more. Blockchain Technology and Computational Excellence for Society 5.0 closes the gap in existing literature by presenting a selection of chapters that not only shape the research domain, but also present supportive real-life problems and pragmatic solutions. This book presents a variety of

highly relevant themes, concepts, and applications in blockchain, discussing topics such as cyber security, digital currencies, and intelligent networks, fueling awareness and interest. With its insight into various platforms, techniques, and tools, this book serves as a valuable resource for academicians, researchers, research scholars, postgraduates, professors, computer scientists, and technology enthusiasts.

Hands-On Smart Contract Development with Hyperledger Fabric V2

Blockchain Research Institute

In recent decades, the industrial revolution has increased economic growth despite its immersion in global environmental issues such as climate change. Researchers emphasize the adoption of circular economy practices in global supply chains and businesses for better socio-environmental sustainability without compromising economic growth. Integrating blockchain technology into business practices could promote the circular economy as well as global environmental sustainability. Integrating Blockchain Technology Into the Circular Economy discusses the technological advancements in circular economy practices, which provide better results for both economic growth and environmental sustainability. It provides relevant theoretical frameworks and the latest empirical research findings in the

applications of blockchain technology. Covering topics such as big data analytics, financial market infrastructure, and sustainable performance, this book is an essential resource for managers, operations managers, executives, manufacturers, environmentalists, researchers, industry practitioners, students and educators of higher education, and academicians.

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