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Blockchain And The Law The Rule Of Code

Blockchain has become attractive to companies and governments because it promises to solve the age-old problem of mutability in

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transactions - that is, it makes falsification and recalculation impossible once a transaction has been committed to the technology. However, the perceived complexity of implementing Blockchain calls for

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an in-depth overview of its key features and functionalities, specifically in a legal context. The systematic and comprehensive approach set forth in this indispensable book, including coverage of existing relevant law

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in various jurisdictions and practical guidance on how to tackle legal issues raised by the use of Blockchain, ensures a one-stop-shop reference book for anyone considering Blockchain-based solutions or rendering

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advice with respect to them. Within a clear structure by fields of law allowing for a systematic approach, each contributor - all of them are practitioners experienced with Blockchain projects within their respective

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areas of expertise - elucidates the implications of Blockchain technology and related legal issues under such headings as the following: technical explanation of Blockchain technology; contract law; regulatory issues and existing

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regulation in a variety of jurisdictions; data protection and privacy; capital markets; information security; patents and other intellectual property considerations; and antitrust law. Keeping the legal questions and

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concepts sufficiently generic so that lawyers can benefit from the handbook irrespective of their jurisdiction and legal background, the authors cover such specific characteristics of Blockchain implementation as so-called smart

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contracts, tokenization, distributed ledger technology, digital securities, recognition of code as law, data privacy challenges and Blockchain joint ventures. Because Blockchain is a relatively new technology still in process and

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raises a multitude of legal questions, this well-balanced introduction - at a depth that allows non-IT experts to understand the groundwork for legal assessments - provides a solid basis for organizations and

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their legal advisors in identifying and resolving Blockchain-related issues. Legal practitioners, in-house lawyers, IT professionals and advisors, consultancy firms, Blockchain associations and legal scholars will welcome this highly

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informative and practical book. This innovative and original book explores the relationship between blockchain and antitrust, highlighting the mutual benefits that stem from cooperation between the two and providing a

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unique perspective on how law and technology could cooperate. The convergence of Artificial Intelligence (AI) in blockchain creates one of the world ' s most reliable technology-enabled decision-making systems that is

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virtually tamper-proof and provides solid insights and decisions. The integration of AI and Blockchain affects many aspects from food supply chain logistics and healthcare record sharing to media royalties and

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financial security. It is imperative that regulatory standards are emphasized in order to support positive outcomes from the integration of AI in blockchain technology. Regulatory Aspects of Artificial Intelligence on

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Blockchain provides relevant legal and security frameworks and the latest empirical research findings in blockchain and AI. Through the latest research and standards, the book identifies and offers solutions for overcoming legal

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consequences that pertain to the application of AI into the blockchain system, especially concerning the usage of smart contracts. The chapters, while investigating the legal and security issues associated with these

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applications, also include topics such as smart contracts, network vulnerability, cryptocurrency, machine learning, and more. This book is essential for technologists, security analysts, legal specialists, privacy and data security

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practitioners, IT consultants, standardization professionals, researchers, academicians, and students interested in blockchain and AI from a legal and security viewpoint.

The product of a unique

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collaboration between academic scholars, legal practitioners, and technology experts, this Handbook is the first of its kind to analyze the ongoing evolution of smart contracts, based upon blockchain technology, from the perspective

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of existing legal frameworks - namely, contract law. The book's coverage ranges across many areas of smart contracts and electronic or digital platforms to illuminate the impact of new, and often disruptive, technologies on

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the law. With a mix of scholarly commentary and practical application, chapter authors provide expert insights on the core issues involving the use of smart contracts, concluding that smart contracts cannot supplant contract

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law and the courts, but leaving open the question of whether there is a need for specialized regulations to prevent abuse. This book should be read by anyone interested in the disruptive effect of new technologies on the law

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generally, and contract law in particular.

Legal Tech, Smart Contracts and Blockchain

Regulating Blockchain

Global Challenges in the Era of Decentralisation

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Regulatory and Legal Issues

Opportunities and Risks

The Law of Bitcoin

Digital Technologies and the Law of Obligations critically examines the emergence of new digital technologies and the challenges they pose to the traditional law of

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obligations, and discusses the extent to which existing contract and tort law rules and doctrines are equipped to meet these new challenges. This book covers various contract and tort law issues raised by emerging technologies – including distributed ledger

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technology, blockchain-based smart contracts, and artificial intelligence – as well as by the evolution of the internet into a participative web fuelled by user-generated content, and by the rise of the modern-day collaborative economy facilitated by digital

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technologies. Chapters address these topics from the perspective of both the common law and the civil law tradition. While mostly focused on the current state of affairs and recent debates and initiatives within the European Union regulatory framework,

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contributors also discuss the central themes from the perspective of the national law of obligations, examining the adaptability of existing legal doctrines to contemporary challenges, addressing the occasional legislative attempts to

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deal with the private law aspects of these challenges, and pointing to issues where legislative interventions would be most welcomed. Case studies are drawn from the United States, Singapore, and other parts of the common law world. Digital Technologies and the

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Law of Obligations will be of interest to legal scholars and researchers in the fields of contract law, tort law, and digital law, as well as to legal practitioners and members of law reform bodies.

Der Band analysiert die neue Blockchain- und Distributed-Ledger-

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Technologie (DLT) sowie das Bitcoin-System im Hinblick auf ihre Auswirkungen auf Recht, Vertragsgestaltung und digitale Wirtschaft. Aus einer internationalen und europäischen Perspektive geschrieben, hilft es juristischen Praktikern, aber auch

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Unternehmern, IT-Spezialisten, Entwicklern und IT-Managern beim Verständnis und der Gestaltung von DLT- und Blockchain-Technologien. Aus dem Inhalt Chapter I Blockchains and DLT in the digital economy Chapter II Blockchains, DLT – basic terms

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**Chapter III Blockchains in finance
Chapter IV Durable media with
blockchain technology Chapter V
"Smart Contracts" Chapter VI The
future of blockchain solutions in
legal regulations (an initiated
discussion).
This key textbook examines the**

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financial growth and success of digital assets in the contemporary economy. As digital assets and other blockchain applications mature, and regulatory authorities work hard to keep pace, three leading attorneys in the field invite students to consider the legal

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frameworks pertinent to regulating this new method of exchange. In this, the first textbook of its kind, the authors explore the growth of smart contracts, the application of securities laws to token sales, the regulation of virtual currency businesses, the taxation of digital

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assets and the intersection of digital assets and criminal law. Blockchain and Supply Chain Management combines discussions of blockchain and supply chains, linking technologies such as artificial intelligence, Internet of Things, satellite

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imagery, and machine vision. The book examines blockchain's basic concepts, relevant theories, and its roles in meeting key supply chain objectives. The book addresses problems related to inefficiency, opacity, and fraud, helping the digitization process, simplifying the

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value creation process, and facilitating collaboration. The book is balanced between blockchain and supply chain application and theory, covering the latest technological, organizational and regulatory developments in blockchain from a supply chain

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perspective. The book discusses the opportunities, barriers, and enablers of blockchain in supply chain policy, along with legal and ethical implications. Supply chain management faces massive disruption with the dynamic changes in global trade, the impact

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of Covid-19, and technological innovation. Entire industries are also being transformed by blockchain, with some of the most promising applications in supply chain management. Provides theoretical and practical insights into both blockchain and supply

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chains Features numerous illustrative case studies, boxes, tables, and figures Examines blockchain's impacts on supply chains in four key industries: Food and beverage, healthcare, pharmaceuticals, and finance And Other Laws of Cyberspace,

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Version 2.0

**Building a High Quality Marketplace
for Crypto Data**

**Blockchains, Smart Contracts,
Decentralised Autonomous
Organisations and the Law**

**Blockchain, Law and Governance
Code**

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Blockchain and Cryptocurrency: International Legal and Regulatory Challenges

This book examines the legal and regulatory aspects of cryptocurrency and blockchain and the emerging practical issues that these issues involve. The analysis covers a range of

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advanced economies across the world, in America, Europe and Asia. The book describes, explains and analyses the nature of cryptocurrencies and the blockchain systems they are constructed on in these major world economies and considers relevant law and regulation and their shortcomings.

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It will be of use and interest to academics, lawyers, regulators and anyone involved with cryptocurrencies and blockchain.

This important and topical book provides a comprehensive overview of the challenges raised by blockchain from the perspective of public law. It

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considers the ways in which traditional categories of public law such as sovereignty, citizenship and territory are shaped, as well as the impact of blockchain technology on fundamental rights and democratic values.

Blockchain technologies, as an emerging distributed architecture and

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computing paradigm, have accelerated the development/application of the Cloud/GPU/Edge Computing, Artificial Intelligence, cyber physical systems, social networking, crowdsourcing and crowdsensing, 5G, trust management, and finance. The popularity and rapid development of Blockchain brings

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many technical and regulatory challenges for research and academic communities. This book will feature contributions from experts on topics related to performance, benchmarking, durability, robustness, as well data gathering and management, algorithms, analytics techniques for

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transactions processing, and implementation of applications.

THE LAW OF BITCOIN is the definitive guide to navigating the rules in the dynamic world of cryptocurrency. This book is the first of its kind delving into cryptocurrency law in four jurisdictions: Canada, Germany, the United

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Kingdom, and the United States. Written by knowledge leaders in the legal cryptocurrency space, THE LAW OF BITCOIN addresses such topics as the intersection of cryptocurrencies and criminal law, taxation, anti-money laundering and counter-terrorist financing regulations, securities law,

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consumer protection, negotiable instruments, currency law, and financial regulation. THE LAW OF BITCOIN will be a leading resource and go-to text both for those wishing to understand the basics of how the law affects cryptocurrency and for those in the legal community searching for

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sophisticated answers to more advanced questions. It is unique because the authors concisely and objectively explain how Bitcoin and bitcoin are lawfully viewed. They provide relevant, up-to-date clarity in a space that is often nebulous, confusing and filled with conflicting partisan

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information. The authors arrive at what will likely be unpopular conclusions that are only possible because they are not seeking to defend special interest groups. This includes issues such as fungibility which is handled in a manner that flips the conventional narrative within the Bitcoin community on its

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head, yet is important for any entrepreneur, developer, investor and user in the nascent space. THE LAW OF BITCOIN is a helpful guide to novices and veterans alike. Tim Swanson, author of THE ANATOMY OF A MONEY-LIKE INFORMATIONAL COMMODITY and

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GREAT CHAIN OF NUMBERS

The Blockchain

Digital Assets and Blockchain

Technology

*Research Handbook in Data Science
and Law*

*Critical Perspectives in Law and
Technology*

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*Handbook of Blockchain Law
Blockchain and Crypto Currency*

***This book examines how
cryptocurrencies based on
blockchain technologies fit
into existing general law
categories of public and***

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private law. The book takes the common law systems of the United Kingdom as the centre of its study but extends beyond the UK to show how cryptocurrencies would be accommodated in some

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Western European and East Asian legal systems outside the common law tradition. By investigating traditional conceptions of money in public law and private law the work examines the difficulties

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of fitting cryptocurrencies within those approaches and models. Fundamental questions regarding issues of ownership, transfer, conflict of laws, and taxation are addressed with a view to

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equipping the reader with the tools to answer common transactional questions about cryptocurrencies. The international contributor team uses the common law systems of the United Kingdom as a

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basis for the analysis, but also looks comparatively to other systems across the wider common law and civil law world to provide detailed examination of the legal problems encountered.

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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

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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,

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macroeconomic impact and internationalization issues. Research on cryptocurrencies and blockchain technology has identified issues such as pricing abnormalities and bubble-like behavior,

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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

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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

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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

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beneficial for upper level masters and research students in economics, law, accounting, taxation, investment and portfolio management.

The growth of Blockchain

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technology presents a number of legal questions for lawyers, regulators and industry participants alike. Primarily, regulators must allow Blockchain technology to develop whilst also ensuring it

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is not being abused. This book addresses the challenges posed by various applications of Blockchain technology, such as cryptocurrencies, smart contracts and initial coin offerings, across different

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fields of law. Contributors explore whether the problems posed by Blockchain and its applications can be addressed within the present legal system or whether significant rethinking is required.

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There's a common belief that cyberspace cannot be regulated-that it is, in its very essence, immune from the government's (or anyone else's) control.Code argues that this belief is wrong. It is

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not in the nature of cyberspace to be unregulable; cyberspace has no "nature." It only has code-the software and hardware that make cyberspace what it is. That code can create a place of

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freedom-as the original architecture of the Net did-or a place of exquisitely oppressive control.If we miss this point, then we will miss how cyberspace is changing. Under the influence of

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commerce, cyberspace is becoming a highly regulable space, where our behavior is much more tightly controlled than in real space. But that's not inevitable either. We can- we must-choose what kind of

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cyberspace we want and what freedoms we will guarantee. These choices are all about architecture: about what kind of code will govern cyberspace, and who will control it. In this realm, code is

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the most significant form of law, and it is up to lawyers, policymakers, and especially citizens to decide what values that code embodies.

***Law, Technology and Society
Legal Regulations,***

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***Implications, and Issues
Surrounding Digital Data
Blockchain and
Cryptocurrency
The Blockchain and the New
Architecture of Trust
Handbook of Blockchain Law.***

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***A Guide to Understanding and Resolving the Legal Challenges of the Blockchain Technology
Blockchain And Distributed Ledgers: Mathematics, Technology, And Economics***

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Written by prominent thought leaders in the global fintech and legal space, The LegalTech Book aggregates diverse expertise into a single, informative volume. Key industry developments are explained in detail, and critical insights from cutting-edge

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practitioners offer first-hand information and lessons learned. Coverage includes: • The current status of LegalTech, why now is the time for it to boom, the drivers behind it, and how it relates to FinTech, RegTech, InsurTech, WealthTech and

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PayTech · Applications of AI, machine learning and deep learning in the practice of law; e-discovery and due diligence; AI as a legal predictor · LegalTech making the law accessible to all; online courts, online dispute resolution · The Uberization of

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the law; hiring and firing through apps · Lawbots; social media meets legal advice · To what extent does LegalTech make lawyers redundant or more efficient? · Cryptocurrencies, distributed ledger technology and the law · The Internet of Things,

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data privacy, automated contracts

• Cybersecurity and data •

Technology vs. the law; driverless

cars and liability, legal rights of

robots, ownership rights over

works created by technology •

Legislators as innovators •

Practical LegalTech solutions

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helping Legal departments in corporations and legal firms alike to get better legal work done at lower cost

Exploring blockchain and bitcoin, Magnuson shows how the technology rife with crime and speculation also offers innovation

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and hope.

Previous ed. titled: Code and other laws of cyberspace, c1999.

"The importance of blockchain and cryptocurrencies continually evolving. The first book on this increasingly important topic, it is a pioneering and seminal read

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which aims to identify regulatory gaps and establish the first applicable legal framework.

Written by well-known experts in cyber law, this reference work covers:

- Blockchain - IP/ownership/legal consequences of use/areas of regulation •**

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Crypto Assets - Security of wallets/IP/Data Sovereignty · The internet of things - Current regulation/ability of smart cities based on IOT to comply with pending legislation/regulation · The impact of GDPR/DPB · How Blockchain will impact on

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ownership of raw materials, eg energy, power and water and the legal implications · Comparative international compliance regimes/cross border jurisdiction issues · International cyber enforcement and certification · Decentralised Autonomous

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Organisations (DAOs) - Regulation and liability Coverage of the FCA/Bank of England/UK Treasury discussion paper for cryptocurrencies is also included and the impact these guidelines will have on possible future regulations. Case studies,

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flowcharts and handy checklists are also included for ease of use. Essential reading for commercial practitioners, IT and IP practitioners, financial regulatory practitioners, corporate/white collar crime practitioners, property

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practitioners, in-house counsel, practitioners in private practice, particularly those who advise entrepreneurs, and corporate and individual investors."--Bloomsbury Publishing.
Blockchain and Supply Chain

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Management

The Insights You Need from

Harvard Business Review

Blockchain and Public Law

**Technology, Law and the Rule of
the Crowd**

The Decentralization Formula

International Legal and

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Regulatory Challenges

Less than a decade after the Financial Crisis, we are witnessing the fast emergence of a new financial order driven by three different, yet interconnected, dynamics: first, the rapid application of technology - such

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as big data, machine learning, and distributed computing - to banking, lending, and investing, in particular with the emergence of virtual currencies and digital finance; second, a disintermediation fuelled by the rise of peer-to-peer lending platforms and

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crowd investment which challenge the traditional banking model and may, over time, lead to a transformation of the way both retail and corporate customers bank; and, third, a tendency of de-bureaucratisation under which new platforms and technologies

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challenge established organisational patterns that regulate finance and manage the money supply. These changes are to a significant degree driven by the development of blockchain technology. The aim of this book is to understand the technological

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and business potential of the blockchain technology and to reflect on its legal challenges. The book mainly focuses on the challenges blockchain technology has so far faced in its first application in the areas of virtual money and finance, as well as those that it will

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inevitably face (and is partially already facing, as the SEC Investigative Report of June 2017 and an ongoing SEC securities fraud investigation show) as its domain of application expands in other fields of economic activity such as smart contracts and initial coin

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offerings. The book provides an unparalleled critical analysis of the disruptive potential of this technology for the economy and the legal system and contributes to current thinking on the role of law in harvesting and shaping innovation.

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This volume explores from a legal perspective, how blockchain works. Perhaps more than ever before, this new technology requires us to take a multidisciplinary approach. The contributing authors, which include distinguished academics, public

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officials from important national authorities, and market operators, discuss and demonstrate how this technology can be a driver of innovation and yield positive effects in our societies, legal systems and economic/financial system. In

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particular, they present critical analyses of the potential benefits and legal risks of distributed ledger technology, while also assessing the opportunities offered by blockchain, and possible modes of regulating it. Accordingly, the discussions chiefly focus on the law and

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governance of blockchain, and thus on the paradigm shift that this technology can bring about.

This open access book contributes to the creation of a cyber ecosystem supported by blockchain technology in which technology and people can

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coexist in harmony. Blockchains have shown that trusted records, or ledgers, of permanent data can be stored on the Internet in a decentralized manner. The decentralization of the recording process is expected to significantly economize the cost of transactions.

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Creating a ledger on data, a blockchain makes it possible to designate the owner of each piece of data, to trade data pieces, and to market them. This book examines the formation of markets for various types of data from the theory of market quality proposed

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and developed by M. Yano.

Blockchains are expected to give data itself the status of a new production factor. Bringing ownership of data to the hands of data producers, blockchains can reduce the possibility of information leakage, enhance the

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sharing and use of IoT data, and prevent data monopoly and misuse. The industry will have a bright future as soon as better technology is developed and when a healthy infrastructure is created to support the blockchain market.

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Every year, there are advances in the way that we deal with information as individuals, governments, and organizations. We live and work predominantly online resulting in an enormous amount of digital data. The way that information is used is

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constantly changing with individuals, governments, and corporations all involved in collecting, storing, using, disclosing, and transferring information online. The growth in artificial intelligence and its effects on data will impact all individuals. It is imperative

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that a greater understanding of these new advances is gained, in particular, the legal implications they have for society. Legal Regulations, Implications, and Issues Surrounding Digital Data is an essential research publication that assists readers in

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understanding the current technology they are using, how digital data is being used by governments and organizations, and the current legal issues surrounding these areas that set out challenges in everyday life. Highlighting topics such as data protection, cybercrime, and

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privacy, this book is ideal for lawyers, academicians, IT specialists, policymakers, cybersecurity professionals, law professionals, researchers, academicians, and students.

Blockchain Democracy

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Reimagining the Regulatory Environment

The Rule of Code

Essentials of Blockchain Technology

Cryptocurrencies in Public and Private Law

Techno-Social and Legal Challenges

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Can blockchain solve your biggest business problem? While the world is transfixed by bitcoin mania, your competitors are tuning out the noise and making strategic

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bets on blockchain. Your rivals are effortlessly tracking every last link in their supply chains. They're making bureaucratic paper trails obsolete while keeping

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their customers' data safer and discovering new ways to use this next foundational technology to sustain their competitive advantage. What should you be doing

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**with blockchain now to
ensure that your business
is poised for success?**

**"Blockchain: The Insights
You Need from Harvard
Business Review" brings
you today's most**

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essential thinking on blockchain, explains how to get the right initiatives started at your company, and prepares you to seize the opportunity of the coming blockchain wave.

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Business is changing. Will you adapt or be left behind? Get up to speed and deepen your understanding of the topics that are shaping your company's future

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Need from Harvard
Business Review series.
Featuring HBR's smartest
thinking on fast-moving
issues--blockchain,
cybersecurity, AI, and**

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more--each book provides the foundational introduction and practical case studies your organization needs to compete today and collects the best

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research, interviews, and analysis to get it ready for tomorrow. You can't afford to ignore how these issues will transform the landscape of business and society.

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The Insights You Need series will help you grasp these critical ideas--and prepare you and your company for the future. This book considers the implications of the

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regulatory burden being borne increasingly by technological management rather than by rules of law. If crime is controlled, if human health and safety are

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secured, if the environment is protected, not by rules but by measures of technological management—designed into products, processes,

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places and so on—what should we make of this transformation? In an era of smart regulatory technologies, how should we understand the ‘regulatory environment’,

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**and the 'complexion' of its regulatory signals?
How does technological management sit with the Rule of Law and with the traditional ideals of legality, legal coherence,**

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and respect for liberty, human rights and human dignity? What is the future for the rules of criminal law, torts and contract law—are they likely to be rendered

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redundant? How are human informational interests to be specified and protected? Can traditional rules of law survive not only the emergent use of

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**technological
management but also a
risk management
mentality that pervades
the collective
engagement with new
technologies? Even if**

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technological management is effective, is it acceptable? Are we ready for rule by technology? Undertaking a radical examination of the disruptive effects of

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technology on the law and the legal mind-set, Roger Brownsword calls for a triple act of re-imagination: first, re-imagining legal rules as one element of a larger

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regulatory environment of which technological management is also a part; secondly, re-imagining the Rule of Law as a constraint on the arbitrary exercise of

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power (whether exercised through rules or through technological measures); and, thirdly, re-imagining the future of traditional rules of criminal law, tort law, and contract law.

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As the distributed architecture underpinning the initial Bitcoin anarcho-capitalist, libertarian project, 'blockchain' entered wider public

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imagination and vocabulary only very recently. Yet in a short space of time it has become more mainstream and synonymous with a spectacular variety of

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**commercial and civic
'problem'/'solution'
concepts and ideals.
From commodity
provenance, to electoral
fraud prevention, to a
wholesale**

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decentralisation of power and the banishing of the exploitative practices of 'middlemen', blockchain stakeholders are nothing short of evangelical in their belief that it is a

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force for good. For these reasons and more the technology has captured the attention of entrepreneurs, venture capitalists, global corporations and

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governments the world over. Blockchain may indeed offer a unique technical opportunity to change cultures of transparency and trust within cyberspace, and as

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'revolutionary' and 'disruptive' has the potential to shift global socioeconomic and political conventions. But as a yet largely unregulated, solutionist-

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**driven phenomenon,
blockchain exists
squarely within the
boundaries of capitalist
logic and reason, fast
becoming central to the
business models of many**

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sources of financial and political power the technology was specifically designed to undo, and increasingly allied to neoliberal strategies with scant

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regard for collective, political or democratic accountability in the public interest.

Regulating Blockchain casts a critical eye over the technology, its

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'ecosystem' of stakeholders, and offers a challenge to the prevailing discourse proclaiming it to be the great techno-social enabler of our times.

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The use of data in society has seen an exponential growth in recent years. Data science, the field of research concerned with understanding and analyzing data, aims to

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find ways to operationalize data so that it can be beneficially used in society, for example in health applications, urban governance or smart

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household devices. The legal questions that accompany the rise of new, data-driven technologies however are underexplored. This book is the first volume that

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seeks to map the legal implications of the emergence of data science. It discusses the possibilities and limitations imposed by the current legal

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framework, considers whether regulation is needed to respond to problems raised by data science, and which ethical problems occur in relation to the use of

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data. It also considers the emergence of Data Science and Law as a new legal discipline. Social, Economic, and Technological Challenges Blockchain

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**Blockchain and the Law
Regulatory Aspects of
Artificial Intelligence on
Blockchain
The LegalTech Book
A Guide for Legal and
Business Professionals**

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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

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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

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implementation of the blockchain, but hundreds of other companies have been founded and billions of dollars invested in similar applications since Bitcoin's launch. Some see the blockchain as offering more

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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,

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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.

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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,

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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.

Blockchain Technology and

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the Law: Opportunities and Risks is one of the first texts to offer a critical analysis of Blockchain and the legal and economic challenges faced by this new technology. This book will offer those who are

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unfamiliar with Blockchain
an introduction as to how
the technology works and
will demonstrate how a legal
framework that governs it
can be used to ensure that
it can be successfully
deployed. Discussions

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included in this book: - an introduction to smart contracts, and their potential, from a commercial and consumer law perspective, to change the nature of transactions between parties; - the

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impact that Blockchain has already had on financial services, and the possible consumer risks and macro-economic issues that may arise in the future; - the challenges that are facing global securities regulators

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with the development of Initial Coin Offerings and the ongoing risks that they pose to the investing public; - the risk of significant privacy breaches due to the online public nature of Blockchain; and -

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the future of Blockchain technology. Of interest to academics, policy-makers, technology developers and legal practitioners, this book will provide a thorough examination of Blockchain technology in relation to

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the law from a comparative perspective with a focus on the United Kingdom, Canada and the United States.

Since Bitcoin appeared in 2009, the digital currency has been hailed as an Internet marvel and decried

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as the preferred transaction vehicle for all manner of criminals. It has left nearly everyone without a computer science degree confused: Just how do you “mine” money from ones and zeros? The answer lies in a

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technology called blockchain, which can be used for much more than Bitcoin. A general-purpose tool for creating secure, decentralized, peer-to-peer applications, blockchain technology has been compared

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to the Internet itself in both form and impact. Some have said this tool may change society as we know it. Blockchains are being used to create autonomous computer programs known as “smart contracts,” to

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expedite payments, to create financial instruments, to organize the exchange of data and information, and to facilitate interactions between humans and machines. The technology could affect governance itself, by

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supporting new organizational structures that promote more democratic and participatory decision making. Primavera De Filippi and Aaron Wright acknowledge this potential and urge the law to catch up. That is

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because disintermediation—a blockchain's greatest asset—subverts critical regulation. By cutting out middlemen, such as large online operators and multinational corporations, blockchains run the risk of

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undermining the capacity of governmental authorities to supervise activities in banking, commerce, law, and other vital areas. De Filippi and Wright welcome the new possibilities inherent in blockchains. But

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as Blockchain and the Law makes clear, the technology cannot be harnessed productively without new rules and new approaches to legal thinking.

The importance of blockchain and cryptocurrencies

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continually evolving. The first book on this increasingly important topic, it is a pioneering and seminal read which aims to identify regulatory gaps and establish the first applicable legal framework.

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Written by well-known experts in cyber law, this reference work covers:

- Blockchain – IP/ownership/legal consequences of use/areas of regulation
- Crypto Assets – Security of wallets/IP/Data

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Sovereignty · The internet of things – Current regulation/ability of smart cities based on IOT to comply with pending legislation/regulation · The impact of GDPR/DPB · How Blockchain will impact on

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ownership of raw materials,
eg energy, power and water
and the legal implications ·
Comparative international
compliance regimes/cross
border jurisdiction issues ·
International cyber
enforcement and

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certification ·

Decentralised Autonomous Organisations (DAOs) –
Regulation and liability
Coverage of the FCA/Bank of England/UK Treasury
discussion paper for
cryptocurrencies is also

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included and the impact these guidelines will have on possible future regulations. Case studies, flowcharts and handy checklists are also included for ease of use. Essential reading for commercial

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practitioners, IT and IP practitioners, financial regulatory practitioners, corporate/white collar crime practitioners, property practitioners, in-house counsel, practitioners in private practice,

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particularly those who advise entrepreneurs, and corporate and individual investors.

US Law and Regulation
The Cambridge Handbook of
Smart Contracts, Blockchain
Technology and Digital

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Platforms

Cryptocurrencies and
Cryptoassets

A Practical Guide to Smart
Contracts and Blockchain Law
Blockchain for Business

Lawyers

The Legal Technology

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Handbook for Investors,
Entrepreneurs and FinTech
Visionaries

Finck examines the emergence of blockchains (and other forms of distributed ledger technologies) and the implications for regulation and

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governance.

"This book is a comprehensive text addressing tax, securities, regulatory and other issues that are essential to practicing in this multidisciplinary space. It surveys legal issues related to blockchain, distributed ledger

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technology and smart contracts, which is an interdisciplinary area of law requiring expertise in tax, securities, anti-money laundering and FINTRAC regulations, class actions, estate planning, commercial transactions and others. "--

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Blockchain is no longer just about bitcoin or cryptocurrencies in general. Instead, it can be seen as a disruptive, revolutionary technology which will have major impacts on multiple aspects of our lives. The revolutionary power of such

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technology compares with the revolution sparked by the World Wide Web and the Internet in general. Just as the Internet is a means of sharing information, so blockchain technologies can be seen as a way to introduce the next level:

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sharing value. Blockchain and Web 3.0 fills the gap in our understanding of blockchain technologies by hosting a discussion of the new technologies in a variety of disciplinary settings. Indeed, this volume explains how such

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technologies are disruptive and comparatively examines the social, economic, technological and legal consequences of these disruptions. Such a comparative perspective has previously been underemphasized in the debate about blockchain, which

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has subsequently led to weaknesses in our understanding of decentralized technologies.

Underlining the risks and opportunities offered by the advent of blockchain technologies and the rise of Web 3.0, Blockchain and

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Web 3.0 will appeal to researchers and academics interested in fields such as sociology and social policy, cyberculture, new media and privacy and data protection.

Handbook of Blockchain Law' provides an overview of the key

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features and functionalities of blockchain technology in a legal context in a remarkably descriptive way. Blockchain has become attractive to companies and governments as it promises to solve the age-old problem of mutability in

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transactions ? that is, it makes falsification and recalculation impossible once a transaction has been committed to the technology. The systematic and comprehensive approach set forth in this book, including coverage of existing

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relevant law in various jurisdictions with a particular focus on European law and US law and practical guidance on how to tackle legal issues raised by the use of blockchain, ensures a one-stop-shop reference book for anyone

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considering blockchain-based solutions or rendering advice for them.

Blockchain + Antitrust

Cryptocurrency and Blockchain Technology

Blockchain and Web 3.0

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Blockchain Technology and the Law
And Other Laws of Cyberspace

Blockchain Regulation and
Governance in Europe

There is a broad consensus amongst law firms and in-house legal departments that next generation "Legal Tech" particularly

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in the form of Blockchain-based technologies and Smart Contracts will have a profound impact on the future operations of all legal service providers. Legal Tech startups are already revolutionizing the legal industry by increasing the speed and efficiency of traditional legal services or replacing them

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altogether with new technologies. This ongoing process of disruption within the legal profession offers significant opportunities for all business. However, it also poses a number of challenges for practitioners, trade associations, technology vendors, and regulators who often struggle to keep up with the

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technologies, resulting in a widening regulatory "gap." Many uncertainties remain regarding the scope, direction, and effects of these new technologies and their integration with existing practices and legacy systems. Adding to the challenges is the growing need for easy-to-use contracting solutions, on the one hand, and

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for protecting the users of such solutions, on the other. To respond to the challenges and to provide better legal communications, systems, and services Legal Tech scholars and practitioners have found allies in the emerging field of Legal Design. This collection brings together leading scholars and practitioners working

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on these issues from diverse jurisdictions. The aim is to introduce Blockchain and Smart Contract technologies, and to examine their on-going impact on the legal profession, business and regulators. This textbook focuses on distributed ledger technology (DLT) and its potential impact on society at large. It aims to offer

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a detailed and self-contained introduction to the founding principles behind DLT accessible to a well-educated but not necessarily mathematically oriented audience. DLT allows solving many complicated problems arising in economics, banking, and finance, industry, trade, and other fields. However, to reap

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the ultimate benefits, one has to overcome some of its inherent limitations and use it judiciously. Not surprisingly, amid increasing applications of DLT, misconceptions are formed over its use. The book thoroughly dispels these misconceptions via an impartial assessment of the arguments rooted in

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scientific reasoning. Blockchain and Distributed Ledgers: Mathematics, Technology, and Economics offers a detailed and self-contained introduction to DLT, blockchains, and cryptocurrencies and seeks to equip the reader with an ability to participate in the crypto economy meaningfully.

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Digital Technologies and the Law of Obligations

A Guide to Understanding and Resolving the Legal Challenges of Blockchain Technology