Communication using blockchain technology. Present uses cases of blockchain technology in healthcare, the food and retail sectors, and the supply chain. The book also covers how blockchain technology can be used to improve the efficiency and transparency of supply chains, as well as its potential to reduce fraud and corruption. The book provides a comprehensive guide to blockchain technology for those who want to learn about the basics of the technology and its applications. It includes chapters on the technical aspects of blockchain, as well as case studies and real-world examples. The book is aimed at a broad audience, including students, researchers, and professionals who want to learn about blockchain technology and its potential applications in various fields.  

Blockchain Technology and Innovations in Business Processes - Srikanta Patik - 2019-11-03

Blockchain Technology and Innovations in Business Processes is a book that will offer you worth, acquire the unconditionally best seller from us currently from several preferred authors. If you want to hilarious books, lots of novels, tale, and more, and more collections are as a consequence launched, from best seller to one of the most current released. You may not be perplexed to enjoy all books collections integrating blockchain with erp for a transparent supply chain that we will no question question. It is not on the subject of the costs. Its very neatly what you obvious currently. This integrating blockchain with erp for a transparent supply chain, as one of the most dynamic sellers here will definitely be along with the best options to review.
Blockchain and other trustless systems have gone from being relatively obscure technologies, which were only known to a small community of computer scientists and cryptologists, to mainstream phenomena that are now shaping virtually every sector of our society. This is chiefly because of its extensive applicability, which includes areas such as finance, healthcare, supply chain management, politics, and governance. The book provides a comprehensive account of the origins, development, and the implications of blockchain technology. It offers a critical view of the hype and offers sober reflection on this crucial and timely topic. It is essential reading for students and scholars of economics, computer science, law, and other related disciplines. The book also provides a solid understanding of the economic models emerging with the implementation of distributed ledger technology. These models are characterized by three factors: open platform innovation, transparency and security. Highlighting a range of topics such as cryptography, smart contracts, and distributed ledger technology, the book is designed to provide novel theoretical and conceptual resources for the future of the new economy. The author argues throughout that, rather than being a technical innovation, blockchain and the supply chain are remaking the rules of digital media and society. Meanwhile, regulators, governments, and the public are trying to make sense of all of it. In this book, Guillermo Prates guides readers through the changing face of money to show how blockchain technology underpins new forms of value exchange and social interactions. The book introduces blockchain in a way that is accessible to anyone, including students, engineers, and professionals working in this particular area or those interested in grasping its diverse facets and expanding the discussion of how blockchain can foster innovation and change the future of business.

Cryptocurrencies and Blockchains - Quin DuPont - 2020-09-03

From their shadowy origin in Bitcoin to their use by multinational corporations, cryptocurrencies and blockchains have been remaking the rules of digital media and society. Meanwhile, regulators, governments, and the public are trying to make sense of all of it. In this book, Guillermo Prates guides readers through the changing face of money to show how blockchain technology underpins new forms of value exchange and social interactions. The book introduces blockchain in a way that is accessible to anyone, including students, engineers, and professionals working in this particular area or those interested in grasping its diverse facets and expanding the discussion of how blockchain can foster innovation and change the future of business.
This book is intended to assist to improve energy efficiency in the industrial sector. The book offers case studies for effective implementation and proposes a systematic approach to measure energy efficiency in the industrial sector. The book extends to all theoretical and applied aspects of the field. This book is an ideal resource for scientists and energy analysts, industrial practitioners, engineers, researchers, and postgraduate students working in the field of management and technology for improving energy efficiency in the industry. Also, the book is in interest to researchers, engineers, and laboratory personnel in the fields of power systems and smart grids.

Blockchain for Enterprise - Naeyeen Pratny - 2018-09-24

Implements blockchain in the enterprise using Ethereum Key Features Build permissioned enterprise-grade blockchain applications from scratch Implement Blockchain-as-a-service to enterprises in terms of deployment and security Achieve privacy in blockchain using proxy re-encryption algorithms Book Description This book discusses the emerging technology of blockchain and its implications for the enterprise. The author provides a comprehensive overview of blockchain technology and illustrates how concepts are transforming the landscape of power systems and energy technologies. The book provides an in-depth understanding of blockchain, its applications, and the challenges and opportunities it presents for the enterprise. The book is designed for professionals and advanced students in power systems, energy technologies, and related fields. The book is based on the latest research and developments in the field of blockchain technology, with a focus on implementing blockchain in the enterprise. The book includes comprehensive case studies and examples of blockchain implementation, making it a valuable resource for practitioners and academics alike.

Demystify architecting complex blockchain applications in enterprise environments Architecting Enterprise Blockchain Solutions helps engineers and IT administrators understand how to architect complex blockchain applications in enterprise environments. The book takes a deep dive into the intricacies of supporting and extending blockchain specialists, business management and software industry professionals who will find it beneficial for enterprise blockchains such as Hyperledger and R3 Corda. Explores how blockchain can be used to solve enterprise problems and develop an understanding of the technology. The book provides a comprehensive overview of blockchain technology and illustrates how concepts are transforming the landscape of power systems and energy technologies. The book is designed for professionals and advanced students in power systems, energy technologies, and related fields. The book includes comprehensive case studies and examples of blockchain implementation, making it a valuable resource for practitioners and academics alike.

RFID for the Supply Chain and Operations Professional - Pamela Zelbst - 2021-11-04

The intent of this book is to provide a sufficient discussion of RFID to enable readers with no prior knowledge to develop a basic understanding of the technology. RFID for the Supply Chain and Operations Professional discusses current applications and specific examples of RFID usage taken from a variety of industries. The appropriate coupling of RFID with other technologies such as global positioning systems (GPS), enterprise resource planning (ERP), and supply chain management (SCM) is highlighted as an overview of the RFID implementation process. This book will help readers develop an understanding of the capability of the technology, its implications on the supply chain and operations, and its ability to increase an organization’s customer responsiveness. In the second edition, the discussion and examples have been updated to reflect the rapid advancement in RFID technology. A new case study and new examples have been added along with updated discussions.

RFID for the Supply Chain and Operations Professional - Pamela Zelbst - 2021-11-04

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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.

Product Lifecycle Management Enabling Smart X - Abdelaziz Bouras - 2020

This book constitutes the refereed post-conference proceedings of the 17th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2020, held in Rapperswil, Switzerland, in July 2020. The conference was held virtually due to the COVID-19 crisis. The 60 revised full papers presented together with 2 technical industrial papers were carefully reviewed and selected from 80 submissions. The papers are organized in the following topical sections: smart factory; digital twins; Internet of Things (IoT, IIoT); analytics in the order fulfillment process; ontologies for interoperability; tools to support early design phases; new product development; business models; circular economy; maturity implementation and adoption; model-based systems engineering; artificial intelligence in CAx, MBE, and PLM; building information modelling; and industrial technical contributions.

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