Record Nr. UNINA9910798222703321 Mougayar William Autore Titolo The business blockchain: promise, practice, and application of the next Internet technology / / William Mougayar ; foreword by Vitalik Buterin Pubbl/distr/stampa Hoboken, New Jersey: .: John Wiley & Sons, Inc., . 2016 ©2016 **ISBN** 1-119-30033-9 1-119-30032-0 Edizione [1st edition] Descrizione fisica 1 online resource (141 p.) Disciplina 004.678 Internet - Technological innovations Soggetti Internet - Security measures Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Title Page: Copyright: Dedication: Foreword: Acknowledgments: A Personal Preface; Notes; Introduction; 1: What is the Blockchain?; Visiting Satoshi's Paper; The Web, All Over Again; One or Several Blockchains?; Introduction to Blockchain Applications; The Blockchain's Narrative is Strong; A Meta Technology; Software, Game Theory and Cryptography; The Database vs. The Ledger; Looking Back So We Can Look Forward; Unpacking the Blockchain; State Transitions and State Machines- What Are They?; The Consensus Algorithms; Key Ideas from Chapter One; Notes; 2: How Blockchain Trust Infiltrates A New Trust LayerDecentralization of Trust-What Does it Mean?; How Airbnb Designed Trust for Strangers; A Spectrum of Trust Services Based on Proofs; The Blockchain Landscape; Benefits and Indirect Benefits; Explaining Some Basic Functions; What Does a Trusted Blockchain Enable?; Identity Ownerships & Representation; Decentralized Data Security: Anonymity & Untraceable Communication: Blockchain as Cloud; Getting to Millions of Blockchains; Key Ideas from Chapter Two; Notes; 3: Obstacles, Challenges, & Mental Blocks; Attacking the Blockchain with a Framework Approach; Technical Challenges

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## Sommario/riassunto

The definitive pioneering blueprint covering the what, why and how of the blockchain. Blockchains are new technology layers that rewire the Internet and threaten to side-step older legacy constructs and centrally served businesses. At its core, a blockchain injects trust into the network, cutting off some intermediaries from serving that function and creatively disrupting how they operate. Metaphorically, blockchains are the ultimate non-stop computers. Once launched, they never go down, and offer an incredible amount of resiliency, making them dependable and attractive for running a new generation of decentralized services and software applications. The Business Blockchain charts new territory in advancing our understanding of the blockchain by unpacking its elements like no other before. William Mougavar anticipates a future that consists of thousands, if not millions of blockchains that will enable not only frictionless value exchange, but also a new flow of value, redefining roles, relationships, power and governance. In this book, Mougayar makes two other strategic assertions. First, the blockchain has polymorphic characteristics; its application will result in a multiplicity of effects. Second, we shouldn't ask ourselves what problems the blockchain solves, because that gives us a narrow view on its potential. Rather, we should imagine new opportunities, and tackle even more ambitious problems that cross organizational, regulatory and mental boundaries. Drawing on 34 years of technology industry experience as an executive, analyst, consultant, entrepreneur, startup mentor, author, blogger, educator, thought leader and investor. William Mougavar describes a future that is influenced by fundamental shifts brought by blockchain technology as the catalyst for change. William Mougayar has been described as the most sophisticated blockchain business thinker. He is a blockchain industry insider whose work has already shaped and influenced the understanding of blockchain for people around the world, via his generous blogging and rigorous research insights. He is a direct participant in the crypto-technology market, working alongside startups, entrepreneurs, pioneers, leaders, innovators, creators, enterprise executives and practitioners; in addition to being an investor, advisor, and board member in some of the leading organizations in this space, such as the Ethereum Foundation, OpenBazaar and Coin Center. Just as the Internet created new poss...