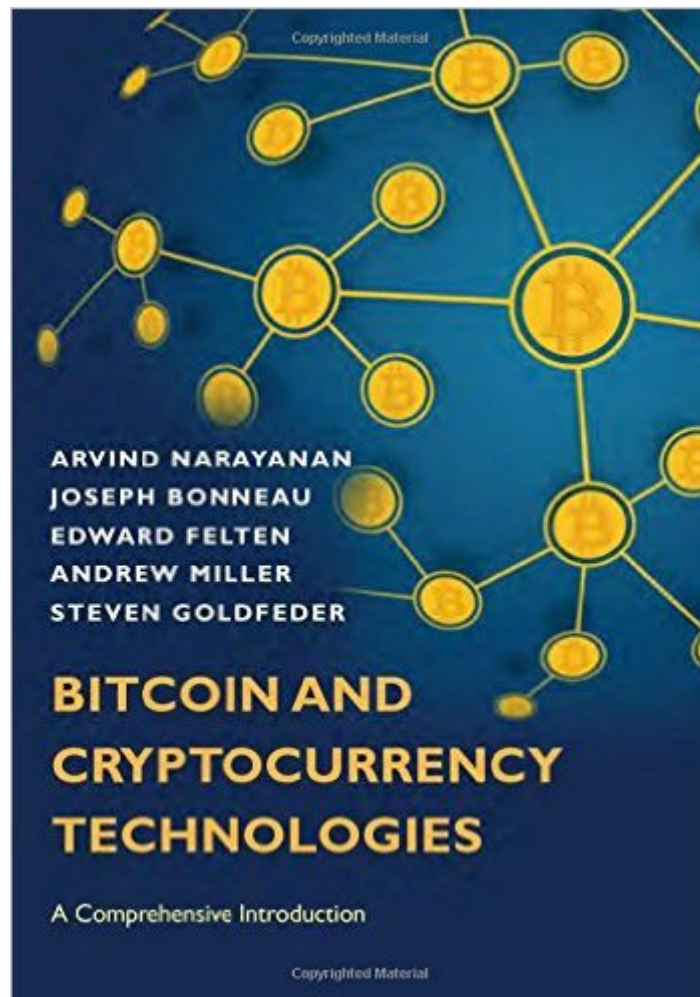


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# Bitcoin And Cryptocurrency Technologies: A Comprehensive Introduction



## Synopsis

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

## Book Information

Hardcover: 336 pages

Publisher: Princeton University Press (July 19, 2016)

Language: English

ISBN-10: 0691171696

ISBN-13: 978-0691171692

Product Dimensions: 7 x 1 x 10.1 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars [See all reviews](#) (5 customer reviews)

Best Sellers Rank: #52,032 in Books (See Top 100 in Books) #14 in [Books > Business & Money > Economics > Digital Currencies](#) #23 in [Books > Business & Money > International > Foreign Exchange](#) #50 in [Books > Computers & Technology > History & Culture](#)

## Customer Reviews

Bitcoin is a topic that evokes a sort of whodunit to many people. Created by an international man of mystery named Satoshi Nakamoto, it leads many to think this is a protocol that lends itself to a John

Grisham novel. Many even think Bitcoin is a government conspiracy. But none of that could be further from the truth. As in introduction, Bitcoin is a digital currency and payment system created by a person named Satoshi Nakamoto. It was sent out as a proof of concept in 2008 and the open source code was released the following year. It uses a peer-to-peer system for transactions without the need any intermediate servers. The force behind Bitcoin is its ledger system, which is done via a blockchain. More about that later. In *Bitcoin and Cryptocurrency Technologies: A Comprehensive Introduction*, authors and noted Bitcoin experts Arvind Narayanan, Joseph Bonneau, Edward Felten, Andrew Miller and Steven Goldfeder have written a highly technical resource that is perhaps the best Bitcoin reference in print to date. Bitcoin is gaining serious momentum, but it is still not at a point where it is a ubiquitous payment system. Case in point that the book is available on eBay, Walmart, , publisher's web site and more. But not of them will accept Bitcoin as a payment method. In the following 11 chapters, the authors cover every core aspect of Bitcoin:

1. Introduction to Cryptography and Cryptocurrencies
2. How Bitcoin Achieves Decentralization
3. Mechanics of Bitcoin
4. How to Store and Use Bitcoins
5. Bitcoin Mining
6. Bitcoin and Anonymity
7. Community, Politics, and Regulation
8. Alternative Mining Puzzles
9. Bitcoin as a Platform
10. Altcoins and the Cryptocurrency Ecosystem
- 11.

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Bitcoin Mining: The Bitcoin Beginner's Guide (Proven, Step-By-Step Guide To Making Money With Bitcoins) (Bitcoin Mining, Online Business, Investing for ... Beginner, Bitcoin Guide, Bitcoin Trading)

Bitcoin and Cryptocurrency Technologies: A Comprehensive Introduction

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