

Ahmed Chahbaz

An Introduction to Blockchain and its Applications

With a Focus on Energy Management



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Energy Management



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The interest in Blockchain technology and its ability of creating consensus in decentralized networks is significantly increasing. Before investigating the features of a Blockchain, the basic mathematical problem that Blockchain solves, referred to as the Byzantine Generals Issue, is examined. This book provides a detailed account of the Blockchain technology and its possible implementations within the scope of energy administration. Later on, a descriptive insight into ongoing projects in the field of energy management is given. Furthermore, this reserve describes the Ethereum system, as most Blockchain energy applications are based on Smart Contracts kept in the Ethereum Blockchain. Conclusively, it is illustrated what sort of local peer-to-peer energy market can be implemented, based on the Ethereum Blockchain.



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