Formal Correctness of Security Protocols (Information Security and Cryptography)

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Computer network security is critical to fraud prevention and accountability. Network participants are
required to observe predefined steps called security protocols, whose proof of correctness is evidence that
each protocol step preserves some desired properties.
The author investigates proofs of correctness of realistic security protocols in a formal, intuitive setting. The
protocols examined include Kerberos versions, smartcard protocols, non-repudiation protocols, and certified
email protocols. The method of analysis, the Inductive Method in the theorem prover Isabelle, turns out to be
both powerful and flexible. This research advances significant extensions to the method of analysis, while
the findings on the protocols analysed are novel and illuminating.
This book will benefit researchers and graduate students in the fields of formal methods, information
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