

Mathematics for Industry 29

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Mathematical Modelling for Next-Generation Cryptography

CREST Crypto-Math Project

 Springer

Tsuyoshi Takagi and

Mathematical Modelling for Next-Generation Cryptography: CREST Crypto-Math Project (Mathematics for Industry)



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This book presents the mathematical background underlying security modeling in the context of next-generation cryptography. By presenting new mathematical results in order to strengthen information security, while simultaneously presenting clean insights and developing the respective areas of mathematics, it is the first-ever book to spotlight areas which have not however been fully exploited for cryptographic applications such as for example representation theory and mathematical physics, among others. This book would work for use in an advanced graduate course in mathematical cryptography, while also offering a valuable reference guide for experts. To address these risks, high-overall performance, next-generation cryptosystems must be studied, which needs the further development of the mathematical history of modern cryptography. Even more specifically, to avoid the protection risks posed by adversaries with advanced attack capabilities, cryptosystems should be upgraded, which relies on a wide range of mathematical theories. Recent advances in cryptanalysis, brought about specifically by quantum computation and physical attacks on cryptographic devices, such as side-channel analysis or power analysis, possess revealed the developing security risks for state-of-the-art cryptographic schemes.



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