APPENDIX C

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- Learn how secure data-encryption techniques work
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- Get official current cryptography standards on enclosed CD-ROM

Steve Burnett & Stephen Paine

RSA Security's Official Guide to Cryptography

Steve Burnett and Stephen Paine

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To Pao-Chi, Gwen, Ray, Satomi, Michelle, Alexander, Warren, Maria, Daniel, and Julia

—Steve Burnett

To Danielle, thanks for understanding while I worked on this book

To Alexis and Elizabeth, a father could not ask for better children

—Stephen Paine

Contents

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Learn how cryptography works—from the leading authority in e-security

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Cryptography is one of the smartest ways to protect the information on your network and reduce the risk of security breaches and attacks from hackers. And because implementing cryptography is a complex process, you need the practical advice and proven techniques contained inside this official guide. Written by insiders at RSA Security, this expert resource explains the differences between symmetric-key and public-key cryptography, how PKI and X.509 affect security, how the RSA algorithm works within protocols, and much more. You'll also read actual case studies detailing different types of security vulnerabilities and what types of cryptography applications would prevent attacks.

This book will show you how to:

- Distinguish different types of symmetric-key encryption algorithms and know where each is best used
- Find out how password-based encryption works
- Communicate safely over unsecure channels using public-key technology
- Use public-key technology for authentication and non-repudiation
- Recognize how corporations use cryptography to improve security through real-world case studies
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STEVE BURNETT has degrees in math from Grinnell College in Iowa and The Claremont Graduate School in California. He has spent most of his career converting math into computer programs at Intergraph Corporation and now with RSA Security. A frequent speaker at industry conferences and college campuses, Steve is the lead engineer for RSA's BSAFE Crypto-C and Crypto-J products, which are general purpose cryptography software development kits in C and Java.

STEPHEN PAINE has worked in the security field throughout most of his career—formerly for the United States Marine Corps and for SUN Microsystems. He is currently a systems engineer for RSA Security, where he explains security concepts to corporations and developers worldwide and provides training to customers and RSA employees.

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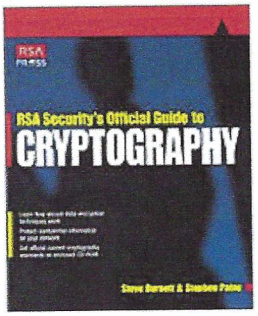

RSA security's official guide to cryptography

Author: Steve Burnett; Stephen Paine

Publisher: New York : Osborne/McGraw-Hill, cop. 2001.

Edition/Format: Print book : English View all editions and formats

Summary: Helps in implementing cryptography, the most secure form of data encryption. This work, with case studies, is written in conjunction with "RSA Security". It is a part of the "RSA Press Series".

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