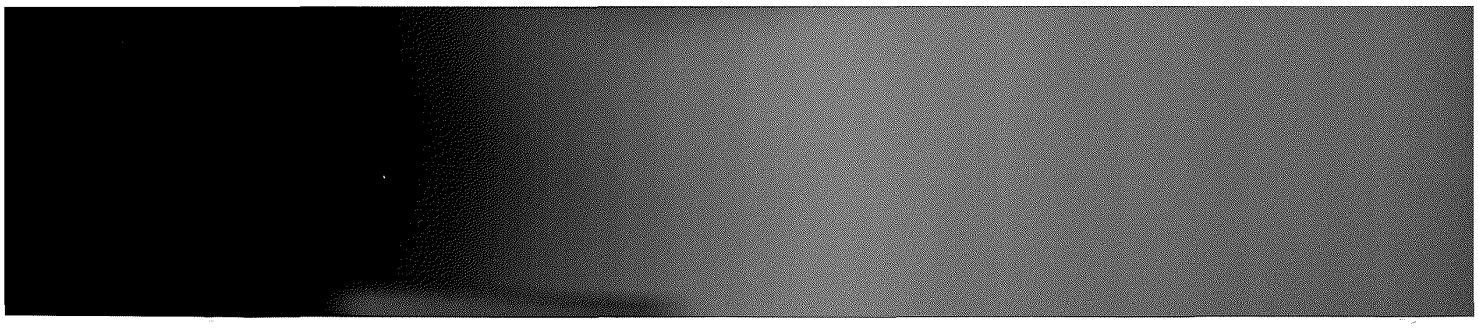
"... the best introduction to cryptography I've ever seen.... The book the National Security Agency wanted never to be published...."
—Wired *Magazine*

SECOND EDITION

APPLIED CRYPTOGRAPHY

Protocols, Algorithms, and Source Code in C

BRUCE SCHNEIER



APPLIED CRYPTOGRAPHY, SECOND EDITION

PROTOCOLS, ALGORITHMS, AND SOURCE CODE IN C

BRUCE SCHNEIER

John Wiley & Sons, Inc.
New York • Chichester • Brisbane • Toronto • Singapore

Publisher: Katherine Schowalter
Editor: Phil Sutherland
Assistant Editor: Allison Roarty
Managing Editor: Robert Aronds
Text Design & Composition: North Market Street Graphics

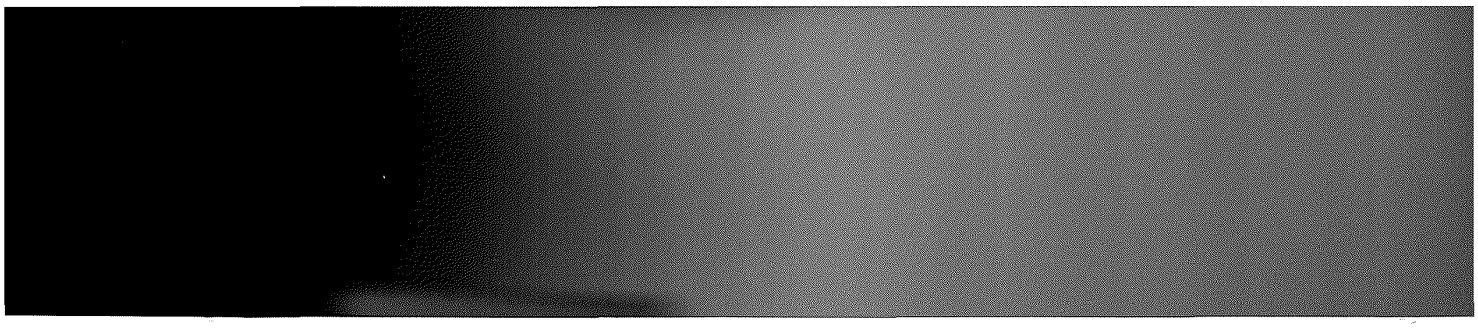
This text is printed on acid-free paper.

Library of Congress Cataloging-in-Publication Data:

Schneier, Bruce
Applied Cryptography Second Edition : protocols, algorithms, and source code in C / Bruce Schneier.
p. cm.
Includes bibliographical references (p. 675).
ISBN 0-471-12845-7 (cloth : acid-free paper). — ISBN 0-471-11709-9 (paper : acid-free paper)
1. Computer security. 2. Telecommunication—Security measures. 3. Cryptography. I. Title.
QA76.9.A25S35 1996
005.8'2—dc20 95-12398
CIP

Printed in the United States of America
10 9 8 7

Conte



APPLIED CRYPTOGRAPHY, SECOND EDITION

PROTOCOLS, ALGORITHMS, AND SOURCE CODE IN C

BRUCE SCHNEIER

John Wiley & Sons, Inc.
New York • Chichester • Brisbane • Toronto • Singapore

Contents in Brief

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.