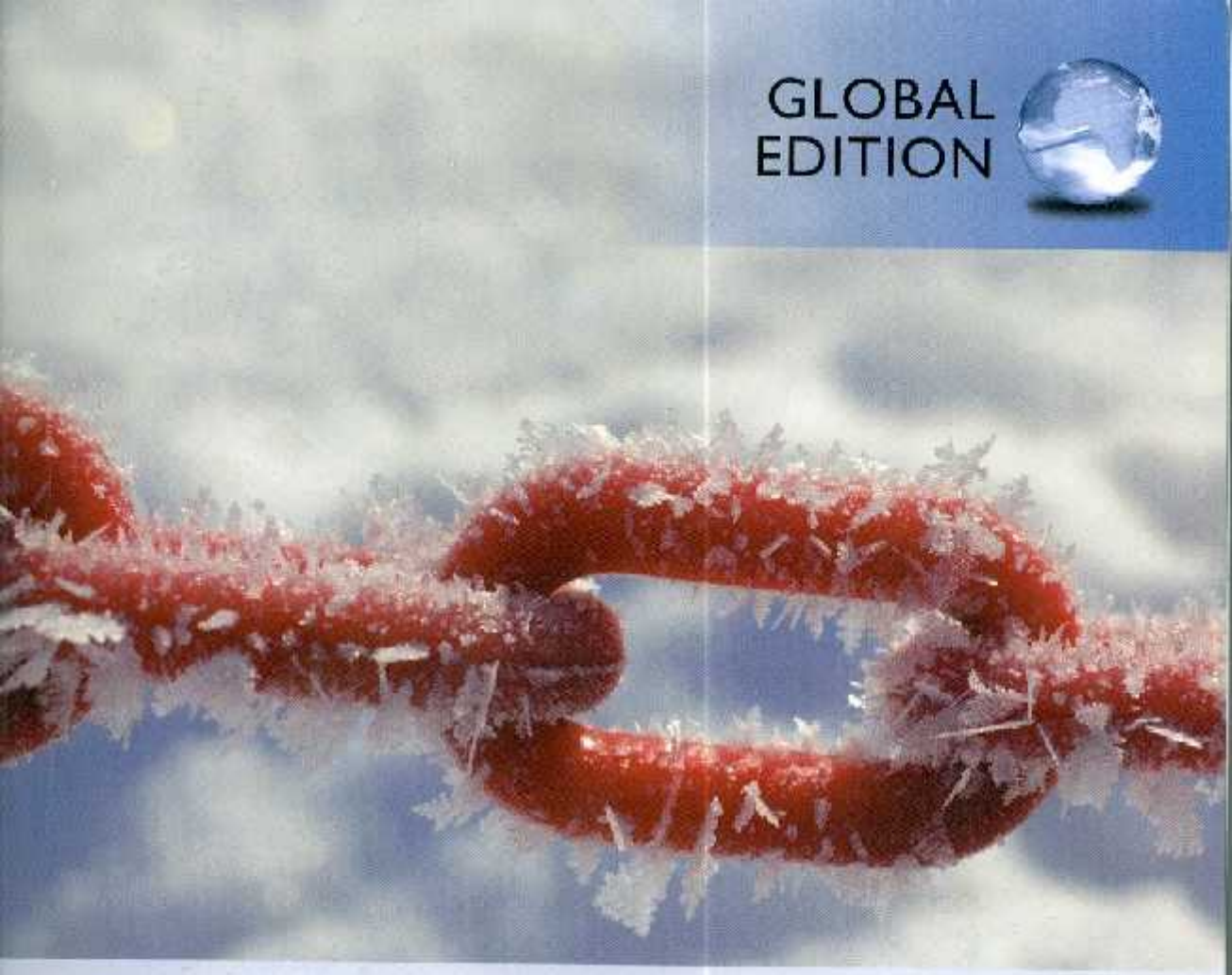
GLOBAL EDITION



Computer Security

nciples and Practice

EDITION

William Stallings • Lawrie Brown

ALWAYS LEARNING

PEARSON

COMPUTER SECURITY
PRINCIPLES AND PRACTICE

Third Edition
Global Edition

William Stallings

Lawrie Brown
UNSW Canberra at the Australian Defence Force Academy

PEARSON

Boston Columbus Indianapolis New York San Francisco Upper Saddle River
Amsterdam Cape Town Dubai London Madrid Milan Munich Paris Montreal Toronto
Delhi Mexico City São Paulo Sydney Hong Kong Seoul Singapore Taipei Tokyo

Editorial Director, ECS: Marcia Horton
Head of Learning Asset Acquisition, Global Edition: Laura Dent
Executive Editor: Tracy Johnson (Dunkelberger)
Editorial Assistant: Kelsey Loanes
Acquisitions Editor, Global Edition: Karthik Subramanian
Associate Project Editor, Global Edition: Uttaran Das Gupta
Director of Marketing: Christy Lesko
Marketing Manager: Yez Alayan
Marketing Assistant: Jon Bryant
Director of Program Management: Erin Gregg
Program Management - Team Lead: Scott Disanno
Program Manager: Carole Snyder
Project Manager: Robert Engelhardt
Senior Manufacturing Controller, Production, Global Edition: Trudy Kimber
Procurement Specialist: Linda Sager
Cover Designer: Lumina Datamatics
Managing Project Editor: Dr. Priyadharshini Dhanagopal
Production Project Manager: Jennifer Sargunar
Permissions Supervisor: Rachel Youdelman
Permissions Administrator: William Opaluch
Cover Art: Bildagentur Zoonar GmbH/Shutterstock
Associate Web Developer: Barry Offringa

Credits and acknowledgments borrowed from other sources and reproduced, with permission, in this textbook appear on page 835.

Pearson Education Limited
Edinburgh Gate
Harlow
Essex CM20 2JE
England and Associated Companies throughout the world

Visit us on the World Wide Web at: www.pearsonglobaleditions.com

ISBN 10: 1-292-06617-2
ISBN 13: 978-1-292-06617-7
British Library Cataloguing-in-Publication Data
A catalogue record for this book is available from the British Library

10 9 8 7 6 5 4 3 2 1
14 13 12 11

Typeset by Mahalatchoumy Saravanan, Jouve India in 10/12 Times Ten LT Std.
Printed and bound by Courier Westford in the United States of America.

CONTENTS

ONLINE CHAPTERS AND APPENDICES[1]

[1]Online chapters, appendices, and other documents are Premium Content, available via the access card at the front of this book.