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William Stallings is a consultant, lecturer, and author of over a dozen professional reference books and textbooks on data communications and computer networking. His clients have included major corporations and government agencies in the United States and Europe. Three times he has received the Best Computer Science Textbook of the Year award from the Text and Academic Authors Association.

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Stallings, William. Data and computer communications/William Stallings.—9th ed. p.cm. Includes bibliographical references and index. ISBN-13:978-0-13-139205-2 (alk.paper) ISBN-10:0-13-139205-0 (alk.paper) 1. Data transmission systems. 2. Computer networks. I. Title. TK5105.S73 2011 004.6--dc22 2010025052 10 9 8 7 6 5 4 3 2 1—EB—15 14 13 11 10

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