

# COMPUTER COMMUNICATIONS

PRINCIPLES AND  
BUSINESS APPLICATIONS

SECOND EDITION

ANDY SLOANE





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The use and complexity of computer networks in the modern business environment is rapidly increasing and today's business user needs a greater understanding of the fundamentals of communication and data transmission. The first edition of **Computer Communications: Principles and business applications** focused on the principles of communication and their application to networks and the business environment. This new edition has been extensively updated to include more information about the Internet and its protocols, more modern networking technologies and an introduction to the design aspects of networks.

The carefully structured coverage begins with a clear analogy between human and computer communication, moving on to fundamental principles such as data transmission, protocols and standards. Networks organizations and functions are considered next together with key means of connection. The main business applications of this technology are then looked at in detail. A realistic case study concludes the book, examining how modern communications affect the business of a small company.

The book is aimed at first and second-year undergraduate and HND students taking courses with a computer communications element such as computer science, multimedia and business information systems.

### Special features

- fully updated to reflect recent technological changes
- logical, step-by-step approach to the principles, design and applications of computer communications
- worked examples, individual and group discussion questions
- detailed case study of a realistic business network

### The author:

Andy Sloane is a senior lecturer at the University of Wolverhampton and author of the first edition of *Computer Communications: Principles and Business Applications* (McGraw-Hill, 1994) and *Multimedia Communication* (McGraw-Hill, 1996). He has almost 20 years experience in computing and communications and has been extensively involved in industrial and consultancy work. His main areas of interest include the application of communications to industry, education and the home-based user.

### Reviews of the first edition:

*If I had to throw away all my computer communications books except one, I would keep this one. The only computer communications book that is really suitable for first and second-level students.*

Dr M Slade, Department of Computing, Staffordshire University

*A valuable book for anyone interested in the applications of computer networks.*  
Dr J W J Heijnsdijk, Department of Technical Computing, Technical University of Delft

### Reviews of the second edition:

*This book is exceptionally well organized and would work well as a course text. It is very well written and, compared to other texts in this area, presents a benchmark for readability.*

Chris Wright,  
School of Computing, University of North London.

*The updates have been seamlessly integrated to fit in with the style and tone of the rest of the book. The Internet, TCP/IP and PC Networks all add to the currency and attraction of the book.*

Andrew Tinson,  
School of Computing and Information Technology,  
University of Luton

<http://www.mcgraw-hill.co.uk>

ISBN 0-07-709443-3



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