



# Telecommunications Engineer's Reference Book

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## Telecommunications Engineer's Reference Book From Focal Press

The pace of change within telecommunications, measured in terms of technology and the opening up of markets to competition, has continued steadily since the highly acclaimed first edition of the Telecommunications Engineer's Reference Book was published. To keep up with all these changes this second edition has been extensively revised, and seven completely new chapters added.

The book maintains a balance between new developments and established technologies since telecommunications systems, once in the network, represent a substantial investment which tends to be maintained for a relatively long time. New operators have the advantage of being able to use the latest technologies when building their new networks.

The book is structured in five parts. Part 1 introduces mathematical techniques which are required for the analysis of telecommunications systems. Part 2 deals with the physical environment of telecommunications. Part 3 describes various components used within telecommunication systems, both wireline and wireless. Part 4 covers fundamental telecommunication topics. Part 5 describes telecommunication applications and represents the largest section of the book. The topics have been selected and grouped in order to cover all the major areas within telecommunications, spanning the field of transmission and switching, the transmission media being copper, fibre optic or wireless.

The 75 International authors who have contributed to the book are all specialists in their own field, working in organisations that are in the forefront of the technology concerned in Europe, Japan, Canada and the USA. Fraidoon Mazda has done an excellent job in pulling all these contributions together to create an ongoing reference work which will be invaluable to anyone working in the growing field of telecommunications.

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#### About the Author

Technical Manager for Northern Telecom Nortel.

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