



Digital Speech: Coding for Low Bit Rate Communication Systems (Wiley Series in Communication and Distributed Systems)

A. M. Kondo

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Digital Speech Coding for Low Bit Rate Communications Systems A. M. Kondo University of Surrey UK
Speech communication is still the dominant service in telecommunications networks. However, modern information requirements, such as multimedia, satellite and mobile communications, have created the need for a more robust and flexible alternative to the traditional analogue system. Digital speech transmission offers many advantages over its analogue counterpart, including consistent quality, versatility, security and successful integration into ISDN. This topical book provides an in-depth account of the latest developments in digital speech coders specifically designed for use in the evolving communications systems. Features include:

- * Fundamental material on sampling and quantisation.
- * Detailed coverage of speech signal analysis and modelling.
- * An examination of the key tools for speech coding.
- * Essential guidance on coding strategies and standards.
- * A review of a wide range of speech coding techniques, such as low delay speech coding and multi-band excitation speech coders.
- * Important information on error control in speech transmission.
- * A comprehensive assessment of system applications and real-time implementations, including unique coverage of the important code-excited linear prediction (CELP) method of speech coding.

A complete examination of the theoretical design and practical applications of speech coders, this book will be invaluable for practising communications engineers, network designers and computer scientists.

Advanced students in electrical, electronic and communications engineering, computer networking and digital signal processing will also find this text a helpful reference source.

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