



# Digital Speech: Coding for Low Bit Rate Communication Systems

*A. M. Kondoz*

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**Digital Speech: Coding for Low Bit Rate Communication Systems** A. M. Kondoz

Building on the success of the first edition *Digital Speech* offers extensive new, updated and revised material based upon the latest research. This *Second Edition* continues to provide the fundamental technical background required for low bit rate speech coding and the hottest developments in digital speech coding techniques that are applicable to evolving communication systems.

- Features new chapters on *Pitch Estimation and Voice-Unvoiced Classification of Speech, Harmonic Speech Coding and Multimode Speech Coding*
- Presents a comprehensively revised chapter entitled *Analysis by Synthesis LPC Coding* including specific examples of popular speech coders such as CELP (Code-Excited Linear Predictive) Coding
- Contains an updated chapter on Efficient LPC Quantization Methods including MSVQ and anti-aliasing filtering
- Discusses Voice Activity Detection (VAD) methods
- Offers expanded coverage of speech enhancement techniques such as echo cancellation and noise suppression

Written by a well-known, highly respected academic, this authoritative volume will be invaluable to practising engineers, network designers, computer scientists and advanced students in communications, electrical and electronic engineering.



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