

Mobile Communications Contents

PART I Basic Principles

- 1 Complex Envelope Representations for Modulated Signals *Leon W. Couch, II*
- 2 Sampling *Hwei P. Hsu*
- 3 Pulse Code Modulation *Leon W. Couch, II*
- 4 Baseband Signalling and Pulse Shaping *Michael L. Honig and Melbourne Barton*
- 5 Channel Equalization *John G. Proakis*
- 6 Line Coding *Joseph L. LoCicero and Bhasker P. Patel*
- 7 Echo Cancellation *Giovanni Cherubini*
- 8 Pseudonoise Sequences *Tor Helleseth and P. Vijay Kumar*
- 9 Optimum Receivers *Geoffrey C. Orsak*
- 10 Forward Error Correction Coding *V.K. Bhargava and I.J. Fair*
- 11 Spread Spectrum Communications *Laurence B. Milstein and Marvin K. Simon*
- 12 Diversity *Arogyaswami J. Paulraj*
- 13 Digital Communication System Performance *Bernard Sklar*
- 14 Telecommunications Standardization *Spiros Dimolitsas and Michael Onufry*

PART II Wireless

- 15 Wireless Personal Communications: A Perspective *Donald C. Cox*
- 16 Modulation Methods *Gordon L. Stüber*
- 17 Access Methods *Bernd-Peter Paris*
- 18 Rayleigh Fading Channels *Bernard Sklar*
- 19 Space-Time Processing *Arogyaswami J. Paulraj*
- 20 Location Strategies for Personal Communications Services *Ravi Jain, Yi-Bing Lin, and Seshadri Mohan¹*
- 21 Cell Design Principles *Michel Daoud Yacoub*
- 22 Microcellular Radio Communications *Raymond Steele*
- 23 Fixed and Dynamic Channel Assignment *Bijan Jabbari*
- 24 Radiolocation Techniques *Gordon L. Stüber and James J. Caffery, Jr.*
- 25 Power Control *Roman Pichna and Qiang Wang*
- 26 Enhancements in Second Generation Systems *Marc Delprat and Vinod Kumar*
- 27 The Pan-European Cellular System *Lajos Hanzo*
- 28 Speech and Channel Coding for North American TDMA Cellular Systems *Paul Mermelstein*
- 29 The British Cordless Telephone Standard: CT-2 *Lajos Hanzo*
- 30 Half-Rate Standards *Wai-Yip Chan, Ira Gerson, and Toshio Miki*
- 31 Wireless Video Communications *Madhukar Budagavi and Raj Talluri*
- 32 Wireless LANs *Suresh Singh*
- 33 Wireless Data *Allen H. Levesque and Kaveh Pahlavan*
- 34 Wireless ATM: Interworking Aspects *Melbourne Barton, Matthew Cheng, and Li Fung Chang*

- 35 Wireless ATM: QoS and Mobility Management *Bala Rajagopalan and Daniel Reininger*
36 An Overview of cdma2000, WCDMA, and EDGE *Tero Ojanperä and Steven D. Gray*