

Channels, propagation and antennas for mobile communications

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Abstrak

This exceptional book introduces the reader to the principles, theory and applications of physical layer wireless/mobile communications. In the area of wireless, the antennas, propagation and the radio channel used are interrelated; this book offers an explanation of that relationship which is fundamental to the development of systems with high spectral efficiency.

The book emphasises the basic principles needed to establish an understanding of this technology. However, the tools required - such as the mathematics and statistics - are treated in the manner of a practical handbook, avoiding detailed derivations. The reader will develop a clear insight into the physics and effects of multipath and the use of multipath channels for communications. Propagation modelling, simulation and measurement, scattering, antenna principles, array antennas, adaptive antennas and smart antennas are also covered.