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Wireless Communications: Theory and Techniques

Asrar U.H. Sheikh

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Wireless Communications: Theory and Techniques Asrar U.H. Sheikh
Wireless Communications: Theory and Techniques covers fundamental concepts of wireless communications including extensive discussion of cellular system design principles, interference and signal processing related topics. The author identifies the complexities of providing reliable wireless communications in the presence of several signal impairing parameters of the channel.
The first part of the book concentrates on mobile radio channels and the impairments these induce in signals propagating over them. These impairments include signal attenuation, fading - selective or flat, slow or fast, and interference. The second part addresses signal reception and processing for minimizing the impact of channel impairments. The third part brings into perspective cellular system design and covers cellular systems that are in commercial operation. The five 3G interface standards are described. Practical treatment of certain essential wireless topics such as antennas, electromagnetic waves and propagation is provided. The material is extensively illustrated and provides comprehensive lists of reference after each chapter. Numerous solved examples and problems to help the reader are included. Problems are provided at the end of chapters for homework and review.
This book is for graduate level courses on wireless communications but it can also be adapted for the senior undergraduate level course by omitting material involving the more difficult mathematical manipulations. Professionals will find a wealth of practical insight gained from the author's years of experience in the field.

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