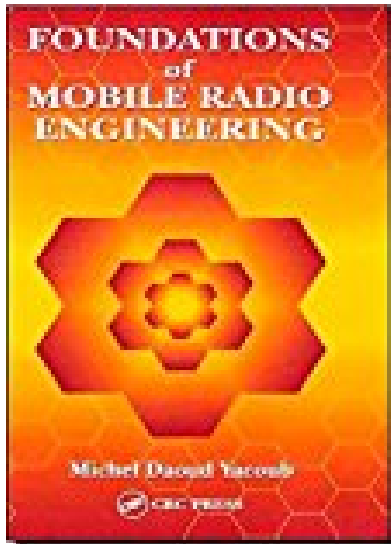


Foundations of Mobile Radio Engineering



BOOK DETAILS

- Author : Michel Daoud Yacoub
- Pages : 496 Pages
- Publisher : CRC Press
- Language : English
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BOOK SYNOPSIS

Foundations of Mobile Radio Engineering is a comprehensive survey covering the main topics of mobile radio systems. Concepts considered include the theory of patterns and symmetry and how it impacts hexagonal cell tessellation, long-term fading and log-normal distribution, short-term fading and Rayleigh distribution, indoor propagation and Rice distribution, Suzuki distribution, interleaving and using codes in a Rayleigh environment, and ALOHA protocol and its improved performance in a Rayleigh environment. The book also addresses interference problems and traffic studies with consideration to the Monte Carlo simulation technique. It presents traffic performance enhancement techniques such as dynamic channel allocation, hybrid channel allocation, channel segregation, and fuzzy cell boundaries algorithms. It also covers adjacent and co-channel interference as functions of traffic load. With practical results, examples, and field measurement problems, the book provides a wealth of information for electrical engineers; professionals in communications, networks, and cellular mobile radio and mobile radio systems; and students in electrical engineering and communication.

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