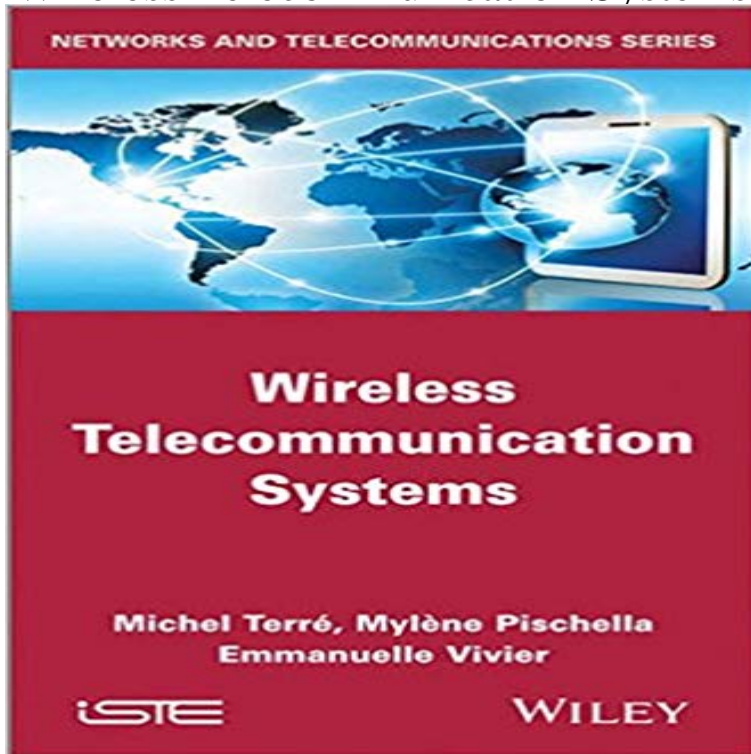


# Wireless Telecommunication Systems



Wireless telecommunication systems generate a huge amount of interest. In the last two decades, these systems have experienced at least three major technological leaps, and it has become impossible to imagine how society was organized without them. In this book, we propose a macroscopic approach on wireless systems, and aim at answering key questions about power, data rates, multiple access, cellular engineering and access networks architectures. We present a series of solved problems, whose objective is to establish the main elements of a global link budget in several radiocommunications systems. Contents 1. Radio Propagation. 2. F/TDMA and GSM. 3. CDMA and UMTS. 4. OFDM and LTE. 5. MIMO and Beamforming. 6. UWB. 7. Synchronization. 8. Digital Communications Fundamentals. 9. Erlang B Tables. About the Authors Michel Terre received his engineering degree from Telecom SudParis, his PhD in electronics and telecommunications from Conservatoire National des Arts et Metiers (CNAM), and his habilitation to conduct researches from Paris XIII University. He is a full professor at Conservatoire National des Arts et Metiers. He his responsable of CNAMs Master of Science in radiocommunicationssystems. Mylene Pischella received her engineering degree and her PhD in electronics and telecommunications from Telecom ParisTech. She is an associate professor at Conservatoire National des Arts et Metiers (CNAM). Emmanuelle Vivier received her engineering degree from Institut Supérieur d'Electronique de Paris (ISEP) and her PhD in radiocommunications from Conservatoire National des Arts et Metiers (CNAM). She is an associate professor at ISEP, where she is responsible of networks and telecommunications teaching majors.

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