



# Wireless Telecommunication Systems

*Michel Terré, Mylène Pischella, Emmanuelle Vivier*

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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 Terré received his engineering degree from Télécom SudParis, his PhD in electronics and telecommunications from Conservatoire National des Arts et Métiers (CNAM), and his habilitation to conduct researches from Paris XIII University. He is a full professor at Conservatoire National des Arts et Métiers. He is responsible of CNAM's Master of Science in radiocommunications systems.

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