



# Radio-Frequency Human Exposure Assessment: From Deterministic to Stochastic Methods (Focus: Waves)

By Joe Wiart

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Nowadays approximately 6 billion people use a mobile phone and they now take a central position within our daily lives. The 1990s saw a tremendous increase in the use of wireless systems and the democratization of this means of communication.

To allow the communication of millions of phones, computers and, more recently, tablets to be connected, millions of access points and base station antennas have been extensively deployed. Small cells and the Internet of Things with the billions of connected objects will reinforce this trend.

This growing use of wireless communications has been accompanied by a perception of risk to the public from exposure to radio frequency (RF) electromagnetic field (EMF). To address this concern, biomedical research has been conducted. It has also been important to develop and improve dosimetry methods and protocols that could be used to evaluate EMF exposure and check compliance with health limits. To achieve this, much effort has been made in the 1990s and 2000s. Experimental and numerical methods, including statistical methods, have been developed.

This book provides an overview and description of the basic and advanced methods that have been developed for human RF exposure assessment. It covers experimental, numerical, deterministic and stochastic methods.

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### **Editorial Review**

About the Author

**Joe Wiart** has been the head of the Chair C2M, "Characterization, Modelling and Mastering of RF exposure", at Telecom ParisTech, Paris, France since 2015. He has been the head of the WHIST Lab, common lab of Orange Labs and the Institute Mines-Telecom, since 2009 and was the head of the dosimetry research unit at Orange between 1997 and 2015. He is a member of several standardization bodies. His research interests include dosimetry, numerical methods and statistics applied in electromagnetism and stochastic dosimetry.

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