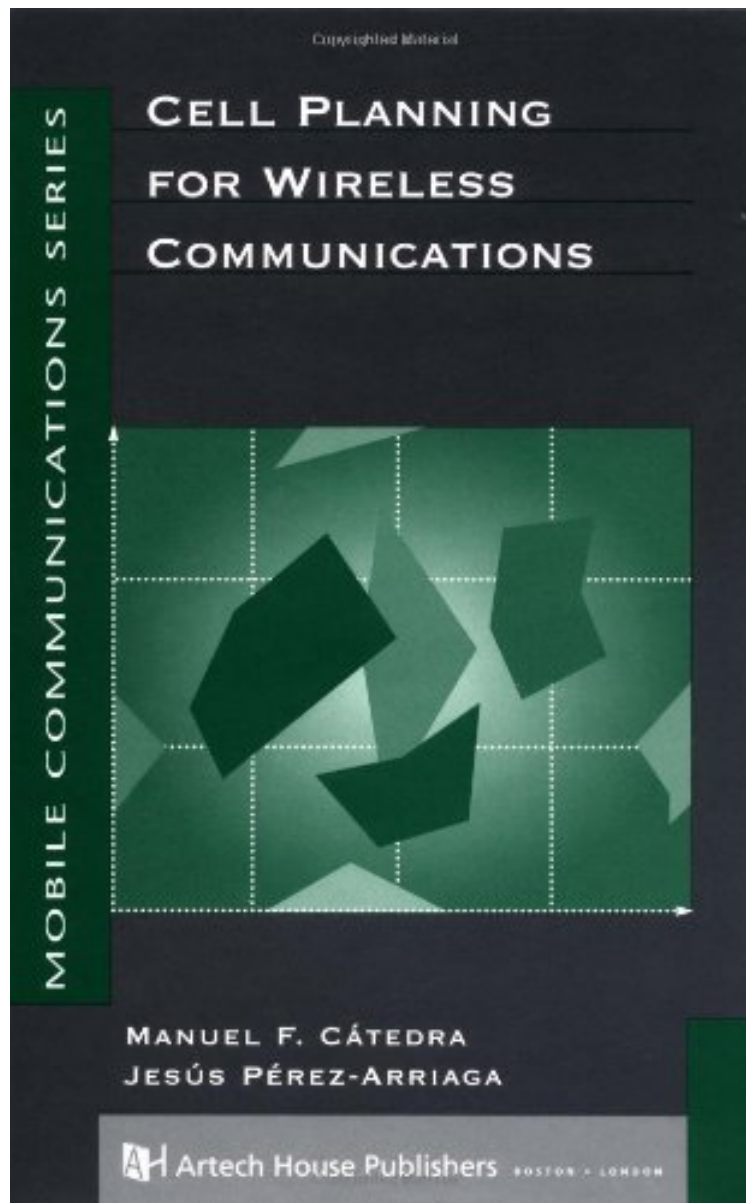


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Obtain a more accurate analysis of radio propagation in cellular networks using the proven techniques described in this book. "Cell Planning for Wireless Communications" surveys the principle tools used in the planning of micro/pico cellular systems for personal communication networks. Engineers, researchers, consultants, and mobile communication graduate students learn how to use specific computer codes to perform a reliable analysis of the major aspects of micro/pico cellular design including propagation, fading estimation, mutual interference, cell geometry, teletraffic, and channel allocation. The book shows you how to improve the design of microcellular network systems by combining propagation models with topographical/morphological databases and ray-tracing acceleration techniques. The authors explain Physical Optic (PO), Geometrical Optic (GO), and the Uniform Theory of Diffraction (UTD) for the analysis of propagation in complex urban or indoor scenarios. The book also survey select empirical propagation models. With over 100 illustrations, 300 equations, computer models and applications to PCS planning, a tutorial presentation of the application of UTD to wireless problems, and new ray tracing algorithms, you get all the information you need to compute propagation in micro/pico cells in one reference. Furthermore, the approaches presented may also be applied to macrocellular systems.

About the Author Manuel F. C?tedra is a professor at the University of Alcal?, Madrid, Spain. He received M.S. and Ph.D. degrees in telecommunications engineering from the Polytechnic University of Madrid and has published 35 professional papers. Jes?s P?rez is an assistant professor at the University of Cantabria. He received his M.Sc. and Ph.D. degrees in electronic engineering from the University of Cantabria, Spain and is the author of 10 professional papers.