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## Antennas and Propagation for Wireless Communication Systems: 2nd Edition (Hardback)

By Simon R. Saunders, Alejandro Aragon-Zavala

John Wiley and Sons Ltd, United States, 2007. Hardback. Condition: New. 2. Aufl.. Language: English . Brand New Book. Antennas and propagation are of fundamental importance to the coverage, capacity and quality of all wireless communication systems. This book provides a solid grounding in antennas and propagation, covering terrestrial and satellite radio systems in both mobile and fixed contexts. Building on the highly successful first edition, this fully updated text features significant new material and brand new exercises and supplementary materials to support course tutors. A vital source of information for practising and aspiring wireless communication engineers as well as for students at postgraduate and senior undergraduate levels, this book provides a fundamental grounding in the principles of antennas and propagation without excessive recourse to mathematics. It also equips the reader with practical prediction techniques for the design and analysis of a very wide range of common wireless communication systems. Including: Overview of the fundamental electromagnetic principles underlying propagation and antennas. Basic concepts of antennas and their application to specific wireless systems. Propagation measurement, modelling and prediction for fixed links, macrocells, microcells, picocells and megacells. Narrowband and wideband channel modelling and the effect of the channel on communication system performance. Methods that overcome and...



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