

Foundations of Antenna Engineering



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著者:Kildal Per-Simon

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This is the first textbook that contains a holistic treatment of antennas both for traditional antennas mounted on masts (Line-of-Sight antenna systems) and for small antennas used on modern wireless devices such as smart phones being subject to

signal variations (fading) due to multipath propagation. The focus is on characterization, as well as describing classical antennas by modern complex vector theory -- Thereby linking together many disciplines such as electromagnetic theory, classical antenna theory, wave propagation, and antenna system performance. Overall, this book represents a rethinking of the way basic antenna theory is presented. The book contains many references to important old and new papers and books on the analysis and design of the most useful antenna types, for the most interested readers. This book is accompanied by a MATLAB handbook that is used to present all graphs in the book. This can therefore be used to provide initial antenna designs before entering into time-consuming numerical simulations.

作者介绍:

Per-Simon Kildal is a professor at Chalmers University of Technology. He earned his doctoral degree from Norwegian Institute of Technology.

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