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wave propagation, including ground wave and ionospheric propagation, goes on to make this text a useful and self-contained reference on antennas and radio wave propagation. While a rigorous analysis of an antenna is highly mathematical, often a simpli?ed analysis is su?cient for understanding the basic principles of operation of an antenna.

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Robert Emmanuel Collin (24 October 1928 – 29 November 2010) was a Canadian American electrical engineer, university professor and life fellow of the IEEE. Collin was elected to the National Academy of Engineering in 1990.

Antennas and Wave Propagation is written for the first course on the same. The book begins with an introduction that discusses the fundamental concepts, notations, representation and principles that govern the field of antennas. A separate chapter on mathematical preliminaries is discussed followed by chapters on every aspect of antennas from Maxwell's equations to antenna array analysis, antenna array synthesis, antenna measurements and wave propagation.

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Aimed at a single-semester course on antennas at the undergraduate level, Antennas and Wave Propagation provides a lucid explanation of the fundamentals of antennas and propagation. This student-friendly text also includes simple design procedures along with a large number of examples and exercises.

"Co-published with Oxford University Press Long considered the most comprehensive account of electromagnetic theory and analytical methods for solving waveguide and cavity problems, this new Second Edition has been completely revised and thoroughly updated -- approximately 40% new material!Packed with examples and applications FIELD THEORY OF GUIDED WAVES provides solutions to a large number of practical structures of current interest. The book includes an exceptionally complete discussion of scalar and Dyadic Green functions. Both a valuable review and source of basic information on applied mathematical topics and a hands-on source for solution methods and techniques, this book belongs on the desk of all engineers working in microwave and antenna systems!" Sponsored by: IEEE Antennas and Propagation Society

This highly illustrated and accessible text will be an ideal introduction to the application of electromagnetics (EM) following an initial course in basic EM theory. The book covers the well established structure of elementary EM courses, beginning with Maxwell's equations in integral form and developing the wave equation to show the essential properties of waves. In addition to providing a grounding in this traditional curriculum, the principal concern throughout is to make difficult concepts of electromagnetism more accessible. The adoption of time domain methods for this purpose is the book's most important breakthrough, allowing the fundamentals of applied electromagnetics to be introduced with a clarity and simplicity not available through the conventional route. Another new aspect of this book is the integration of computational modelling methods with the standard theory of electromagnetic waves. The author presents a set of example programs written in the MATLAB language to support the ideas outlined in the text. The book is organized in a logical progression of ideas, starting with the general idea of wave motion and showing how the equations of electricity and magnetism lead to the existence of electromagnetic waves through the Maxwell's equations. These ideas are then applied to simple accelerating charge models used in the engineering design of wire antennas. The concepts of resonance and antenna impedance are then treated from a time domain point of view. To reinforce the concepts of wave propagation, a chapter on computer modelling shows the rigorous procedures required to generate accurate numerical models of wave dynamics. The author extends these ideas to consider the properties of aperture antennas, showing how their important properties can be incorporated with the basic themes introduced earlier in the book. Finally, the important topic of wave scattering is introduced, once again from the point of view of time domain concepts.

Offers a comprehensive introduction to the practice and underpinnings of personal communications. This book contains chapters that explain how the ultra-wide band technology affects various aspects of personal communications. It covers important innovations such as wireless local networks, personal networks, and MIMO techniques.

About The Book: The book covers the major topics of microwave engineering. Its presentation defines the accepted standard for both advanced undergraduate and graduate level courses on microwave engineering. It is an essential reference book for the practicing microwave engineer

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