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Robert Emmanuel Collin (24 October 1928 – 29 November 2010) was a Canadian American

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electrical engineer, university professor and life fellow of the IEEE. Collin was elected to the National Academy of Engineering in 1990.

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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.

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.

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"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



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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.

**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

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

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An accessible student-oriented approach to radiowave propagation Propagation-the process whereby a signal is conveyed between transmitter and receiver-has a profound influence on communication systems design. Radiowave Propagation provides an overview of the physical mechanisms that govern electromagnetic wave propagation in the Earth's troposphere and ionosphere. Developed in conjunction with a graduate-level wave propagation course at The Ohio State University, this text offers a balance of physical and empirical models to provide basic physical insight as well as practical methods for system design. Beginning with discussions of propagation media properties, plane waves, and antenna and system concepts, successive chapters consider the most important wave propagation mechanisms for frequencies ranging from LF up to the millimeter wave range, including: Direct line-of-sight propagation through the atmosphere Rain attenuation The basic theory of reflection and refraction at material interfaces and in the Earth's atmosphere Reflection, refraction, and diffraction analysis in microwave link design for a specified terrain profile Empirical path loss models for point-to-point ground links Statistical fading models Standard techniques for prediction of ground wave propagation Ionospheric propagation, with emphasis on the skywave mechanism at MF and HF and on ionospheric perturbations for Earth-space links at VHF and higher frequencies A survey of other propagation mechanisms, including tropospheric scatter, meteor scatter, and propagation effects on GPS systems Radiowave Propagation incorporates fundamental materials to help senior undergraduate and graduate engineering students review and strengthen electromagnetic physics skills as well as the most current

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empirical methods recommended by the International Telecommunication Union. This book can also serve as a valuable teaching and reference text for engineers working with wireless communication, radar, or remote sensing systems.

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