



Transmission Lines And Wave Propagation Fourth Edition

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Summary : Free transmission lines and wave propagation fourth edition pdf download - transmission lines and wave propagation fourth edition helps readers develop a thorough understanding of transmission line behavior as well as their advantages and limitations developments in research programs and concepts since the first edition presented a demand for a version that reflected these advances extensively revised the fourth edition of this bestselling text does just that offering additional formulas and expanded discussions and references in addition to a chapter on coupled transmission lines what makes this text so popular the first part of the book explores distributed-circuit theory and presents practical applications using observable behavior such as travel time attenuation distortion and reflection from terminations it analyzes signals and energy traveling on transmission lines at finite velocities the remainder of the book reviews the principles of electromagnetic field theory then applies maxwell s equations for time-varying electromagnetic fields to coaxial and parallel conductor lines as well as rectangular circular and elliptical cylindrical hollow metallic waveguides and fiber-optic cables this progressive organization and expanded coverage make this an invaluable reference with its analysis of coupled lines it is perfect as a text for undergraduate courses while graduate students will appreciate it as an excellent source of extensive reference material this edition includes an overview of fiber optic cables emphasizing the principle types their propagating modes and dispersion discussion of the role of total internal reflection at the core cladding interface and the specific application of boundary conditions to a circularly symmetrical propagating mode a chapter on coupled transmission lines including coupled-line network analysis and basic crosstalk study more information on pulse propagation on lines with skin-effect losses a freeware program available online solutions manual available with qualifying course adoption

Pusblisher : CRC Press on 2000-12-26 / **ISBN** : 0849302692

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