

Antenna And Wave Propagation By K D Prasad

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proceedings of the first symposium on aviation maintenance and management collects selected papers from the conference of isamm 2013 in china held in xi an on november 25 28 2013 the book presents state of the art studies on the aviation maintenance test fault diagnosis and prognosis for the aircraft electronic and electrical systems the selected works can help promote the development of the maintenance and test technology for the aircraft complex systems researchers and engineers in the fields of electrical engineering and aerospace engineering can benefit from the book jinsong wang is a professor at school of mechanical and electronic engineering of northwestern polytechnical university china

this single volume provides a comprehensive introduction and explanation of both the theory and practice of planar near field antenna measurement from its basic postulates and assumptions to the intricacies of its deployment in complex and demanding measurement scenarios to do this the book initially examines the properties of antennas that allow them to enhance the free space interaction of electronic systems and this leads into a full description of the theory of planar near field scanning

this comprehensive modular treatment of the challenging issues involved in very high speed optical transmission systems contains all the theory and practical design criteria required to optimise transmission system design each chapter covers the theoretical modelling of a given system chapters are well supported by real world worked examples and accompanied by matlab code and receiver design examples critical analysis and comparison of engineering solutions is presented to make clear the principles underlying system performance optimisation and a broad range of transmission systems is discussed including the status and performance demands of the terabit systems now entering the next generation market blending theoretical and practical considerations for high speed fibre optic systems design this is an indispensable reference for all forward looking professionals and researchers in optical communications

according to its definition synergetics is concerned with systems that produce macroscopic spatial temporal or functional structures autowaves are a specific yet very important case of spatio temporal structures the term autowave was coined in the soviet union in analogy to the term auto oscillator this is perhaps too literal translation of the russian word avto ostsillyatory self oscillator which in its proper translation means self sustained oscillator these are oscillators e g clocks whose internal energy dissipation is compensa ted by a more or less

continuous power input similarly the term autowaves denotes propagation effects including waves in active media which provide spatially distributed energy sources and thus may compensate dissipation an example which is now famous is represented by spiral or concentric waves in a chemically active medium undergoing the belousov zhabotinsky reaction this book provides the reader with numerous further examples from physics chemistry and biology e.g. autowaves of the heart while the belousov zhabotinsky reaction is now widely known a number of very important results obtained in the soviet union are perhaps less well known i am particularly glad that this book may help to make readers outside the soviet union acquainted with these important experimental and theoretical findings which are presented in a way which elucidates the common principles underlying this kind of propagation effects professor v

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