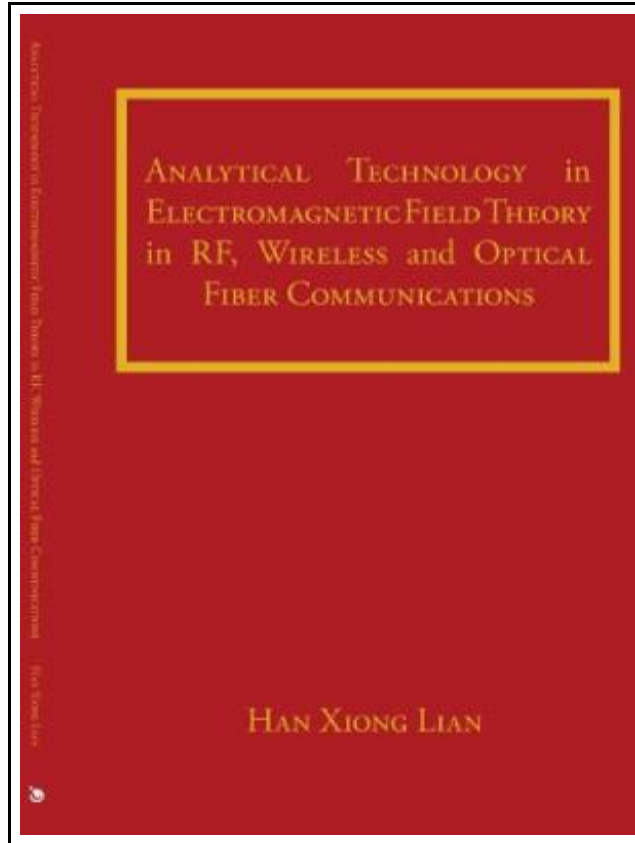


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ANALYTICAL TECHNOLOGY IN ELECTROMAGNETIC FIELD THEORY IN RF, WIRELESS AND OPTICAL FIBER COMMUNICATIONS



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iUniverse, United States, 2009. Paperback. Book Condition: New. 279 x 210 mm. Language: English . Brand New Book ***** Print on Demand *****.Now the author tries to sum up the analytical technology in the electromagnetic field theory that has taken place in these several ten years, which includes the papers and materials not only from author but also from other authors. All of those have been listed in the bibliography and have been mentioned in each chapter. Obviously, the problems are so complicated which cannot be analyzed by means of the traditional analysis, but to set up a new system to analyze the electromagnetic field based on the functional analysis. Nowadays, the functional analysis has been displaced everywhere on the high level magazine to analyze the complicated boundary value problem in the theory of electromagnetic field. However, the functional analysis and the electromagnetic field theory is still separated into two causes in USA and Canada. We have discussed the nonlinear phenomena in single mode fiber such as the Stimulated Raman Scattering, the Stimulated Brillouin Scattering, the Self-Focus Phenomenon, the Kerr Effect, the Four-Photon Mixture, the Nonlinear Absorption and the Soliton Transmission in a single-mode fiber. From the mathematic point of view, we have discussed the characteristic method, the perturbation approach, the function transformation method and the inverse scattering transformation method to transform the nonlinear equations into the linear equations to get the solutions. Now, the numerical method has been widely used in the microwave devices and optical devices to do the calculation by computer. However, the analytical technology still is a powerful tool in the computer aided design. For instance, a very powerful computer aided design program named EESOF from EESOF Inc. and the Advanced Design System (ADS) from Agilent Inc. are mostly based on the analytical solutions. Now this...



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