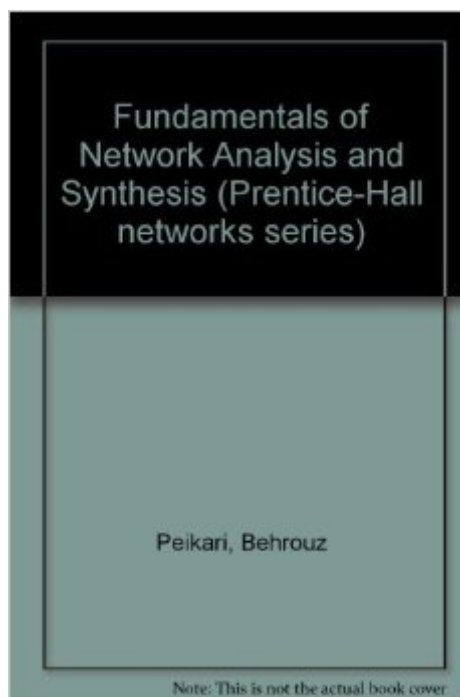


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Fundamentals Of Network Analysis And Synthesis (Prentice-Hall Electrical Engineering Series. Solid State Physical Electronics Series. Prentice-Hall Networks Series)



Book Information

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Customer Reviews

(Note: This review, written by Dr. George T. Cotter of the University of New Brunswick, originally appeared in the 1978 IEEE "Circuits and Systems", Vol. 12, No. 1; it refers to the 1974 edition.) A plethora of textbooks are available today dealing with the analysis and synthesis of circuits and systems. Peikari's book breathes fresh air into this somewhat confusing environment. Although much of the material is traditional, it is nonetheless up to date and well documented. What sets this book apart from most others in the area is that it is excellently written and motivating--qualities too often lacking in many technical textbooks. The level of this book is appropriate for first year graduate students and interested seniors. It should also be a welcome addition to the personal library of teachers of this material. It covers the areas of analysis and synthesis of linear, time-invariant networks as well as active, nonlinear, and time-varying networks. The author suggests a division into three parts: seven chapters on the traditional fundamentals of analysis; two chapters on classical synthesis and contemporary computer-aided design; and two chapters on small signal analysis of nonlinear networks and the stability problem--material of a more advanced nature. The topics covered are really no different from many other texts. However, the manner in which they are covered is striking: First of all, there is motivation in each section. Reasons are given for proceeding to the next topic. The examples are usually not trivial and are carefully chosen. Exceptions and pitfalls are clearly pointed out via "Remarks."

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