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NETWORK SYNTHESIS AND FILTER DESIGN

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Wiley India Pvt. Ltd, 2010. Softcover. Book Condition: New. Network Synthesis and Filter Design is targeted to serve as a core text for undergraduate students of electrical, electronics and telecommunication engineering of all major Indian universities. The book is well organized in seven chapters and covers all the important topics in the field of electric network. The text starts with the fundamentals of network synthesis and discusses about the network functions in details followed by synthesis of one-port networks and transfer functions. Then the text gives a glimpse into the important filters used in network design. The performance of any network depends on how well it can perform its functions and its robustness despite distortions. Parameters like sensitivity and gain are then dealt with in detail. The book is intended for those readers who are well-versed with the basic concepts of electrical network and filters. It aims to provide a platform for advanced network synthesis techniques. Filters, the essence of any network design, have been appropriately handled in the book. Preface About the Authors 1. Network Functions and Fundamentals of Network Synthesis 1.1 The System Function 1.2 Different Forms of System Functions 1.3 Partial-Fraction Expansion 1.4 R-C Differentiator and Integrator 1.5 Poles and Zeros 1.6 Basic Concept in Bode Plot 1.7 Poles and Zeros and Time Delay 1.8 Uniform Dissipation or Uniform Loading 1.9 Elements of Realizibility: Causality and Stability 1.10 Hurwitz Polynomials 1.11 Positive Real Functions 1.12 Basic Synthesis Procedure 2. Synthesis of One-Port Network 2.1 Introduction 2.2 Properties of L-C Immittance Functions 2.3 Synthesis of L-C Driving-Point Immittances 2.4 Properties of R-C Driving-Point Impedances 2.5 Synthesis of R-C Impedances or R-L Admittances 2.6 Properties of R-L Impedances and R-C Admittances 2.7 Synthesis of Certain R-L-C Functions 3. Synthesis of Transfer Function 3.1 Introduction 3.2 Two-Port Networks 3.3 Transfer...

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