



## Electrical Circuit Analysis: Including Passive Network Synthesis (Second Edition)

By C.L. Wadhwa

New Age International (P) Limited, 2009. Softcover. Condition: New. 5th or later edition. This book has been designed as a basic text for undergraduate students of Electrical, Electronics and Communication and Computer Engineering. In a systematic and friendly manner, the book explains not only the fundamental concepts like circuit elements, Kirchhoff's laws, network equations and resonance, but also the relatively advanced topics like state-variable analysis, modern filters, active RC filters and sensitivity considerations. Salient Features : \* Network theorems explained using typical examples. \* Differential equations for estimation of initial conditions and transient analysis of electric networks have been discussed. \* Interconnections of two-port networks and their performance in terms of their poles and zeros emphasised. \* Both Foster and Cauer forms of realisation explained in network synthesis. \* Laplace transform and Fourier transforms and their applications to network analysis emphasised. \* A.C. Circuits 1-phase as well as 3-phase circuits dealt with comprehensively. \* Frequency response and Bode Plot of a system function explained. \* Numerous solved examples and practice problems for a thorough grasp of the subject. \* A huge Question Bank of multiple-choice questions with answers exhaustively covering the topics discussed. With all these features, the book would...



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