

# Network Theory By Pankaj Swankar

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**10 ISSN No. (Print) : 0975-8364 ISSN No. (Online) : 2249 ...**

Pankaj Swarnkar 1, Shailendra Kumar Jain 2 and RK Nema 3 1Assistant Professor, artificial neural network (ANN) and genetic algorithm Application of these techniques in the area of power quality shows great improvement in results in application of modern control theory ...

### **Effect of Adaptation Gain on system Performance for Model ...**

modern control theory and, in particular, adaptive control Pankaj Swarnkar is Assistant professor in Maulana Azad National Institute of Technology, Bhopal, (e-mail: p\_swarnkar@ yahoo.co.in) Also the concept of neural network is applied to develop the PID controllers [10-12] to enhance the dynamic **SCHEME**

1 Network Analysis by M E Van Valkenburg, Pearson 2 Network Analysis and Synthesis by Franklin F Kuo, Wiley 3 Circuits, Devices and Systems by Smith and Dorf, Wiley 4 Network analysis and Synthesis by Pankaj Swarnkar, Satya Prakashan 5 Electric Circuits by M Nahavi and J A Edminister, Schaum's Outlines Network Lab Experiments 1

### **NETWORK ANALYSIS AND SYNTHESIS**

NETWORK ANALYSIS - I (DIFFERENTIAL EQUATION APPROACH): Network elements, Initial and final conditions (Constant flux linkage and Charge theorems), Step and Impulse response of RC & RL Circuits (Concept of time constant), Solution of RLC- Series & Parallel circuits for the step and impulse excitations, Analysis of Transformer (Mutual Inductance

### **COURSE BOOKS - KOYAPETE**

4 Basic Electrical Engineering, Pankaj Swarnkar, copy right 2009 Weekly Course Outlines (3 hrs weekly) Lecture Topic 1 Introduction, basic

electrical quantities, elements and definitions 2 Electrical Engineering Materials (conductors, semiconductors and insulators)

**International Journal on Emerging Technologies 10(1): 97 ...**

Sudeshna Ghosh<sup>1</sup>, Pankaj Swarnkar<sup>1</sup> and DM Deshpande<sup>2</sup> natural genetic evolution, the Darwin theory and other evolutionary theories The neural network proves to enhance the performance of the fuzzy logic speed controller in induction motor drives [40] Although, the optimization techniques

**Effect of Adaptation Gain in Model Reference Adaptive ...**

Effect of Adaptation Gain in Model Reference Adaptive Controlled Second Order System Pankaj Swarnkar Dept of Electrical Engineering Maulana Azad National Institute of Technology Bhopal, India Shailendra Jain Dept of Electrical Engineering Maulana Azad National Institute of Technology Bhopal, India R K Nema Dept of Electrical Engineering

**NETWORK ANALYSIS & SYNTHESIS**

resonance Loop and node variable analysis, Waveform Synthesis-The Shifted Unit Step, Ramp and Impulse Function, Waveform Synthesis, The Initial and Final Value Theorems, The Convolution Integral Module-II IMPEDANCE FUNCTIONS AND NETWORK THEOREMS: The Concept of Complex

**2/4 B.Tech - THIRD SEMESTER**

Resistor-Inductor-Capacitor circuit, Response of RL circuit to various functions, Response of RC circuit to various functions UNIT III Two-Port Networks: Open-circuit impedance parameters, Short circuit admittance parameters, Transmission parameters, Inverse transmission parameters, Hybrid parameters,

**Comparative Analysis of MIT Rule and Lyapunov Rule in ...**

Swarnkar Pankaj (Corresponding author) Lyapunov theory 1 Introduction A control system is in the broadest sense, an interconnection of the physical components to provide a desired function, involving some type of control action with it The requirement of high performance Later on the concept of neural network is applied to

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**TA Allocation, Autumn 2012**

TA Allocation, Autumn 2012 Page 1 No Name Instructor Allocation CS11001 Programming and Data Structures Section 8,9,10 RSC Section 11,12 DS Section 13,14 AM

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**Book Title List - ICDST**

13 Active network analysis Chen, Wai-kai 14 Adaptive control Astrom, Karl Johan 2 15 Adaptive filtering primer with MATLAB Poularikas, Alexander D 16 Advanced control theory Nagoor Kani, A 2nd 17 Advanced control theory Nagoor Kani, A 2 18 Advanced Control Theory Nagoorkani, A 2 19 Advanced Control theory Nagoor Kani,A 2

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