

ADVANCED NETWORKING TECHNOLOGIES

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P R E F A C E

This book aims to introduce the concepts in network performance, Switching, Router Architecture, to familiarize with IP Next generation, IPv6 concepts. Here we go through Packet switching techniques, factors limiting the performance of switches and its mitigation measures, Functions of a Router and router architecture and introduction to IP address lookup algorithms, Next Generation Ipv6 addressing support for QoS and security, TCP Congestion Control mechanisms proactive and reactive measures to alleviate the problem, Random Early Detection (RED) its variants and feedback mechanisms. The students attain the knowledge of internal working of large packet switched networks, familiarizes with the usage and study of modern tools to analyze the network performance, students also gain expertise for the design and development of solutions, and enhances engineering knowledge.

 *Dr. K.P. Yadav*

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