A Survey of Computer Network Topology and Analysis Examples

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Abstract

This paper presents an introduction to Computer Network Topology. Definitions of Physical and Logical Topologies are provided. Additionally common Computer Network realizations of Physical Topologies are reviewed. This is followed by a discussion of Graph Theory and its relation to topological analysis. A discussion of analysis examples follows with an emphasis on message routing issues, network sizing, and virus analysis. These examples are discussed to underscore the impotance of topological design when constructing a new computer network, or adding to an existing one.

Keywords:

Physical Network Topology, Logical Network Topology, Minimum Spanning Tree, Graph Theory, Bus Network Topology, Ring Network Topology, Star Network Topology, Tree Network Topology, Mesh Network Topology, Hybrid Topology, Directed Graph, Undirected Graph, Queueing Theory, Combinatorial Trials, Tree-Bus Topology

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1. Introduction

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