

Design of modern communication networks : methods and applications

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Abstrak

Design of modern communication networks focuses on methods and algorithms related to the design of communication networks, using optimization, graph theory, probability theory and simulation techniques. The book discusses the nature and complexity of the network design process, then introduces theoretical concepts, problems and solutions. It demonstrates the design of network topology and traditional loss networks, followed by uncontrolled packet networks, flow-controlled networks, and multiservice networks. Access network design is reviewed, and the book concludes by considering the design of survivable (reliable) networks and various reliability concepts.