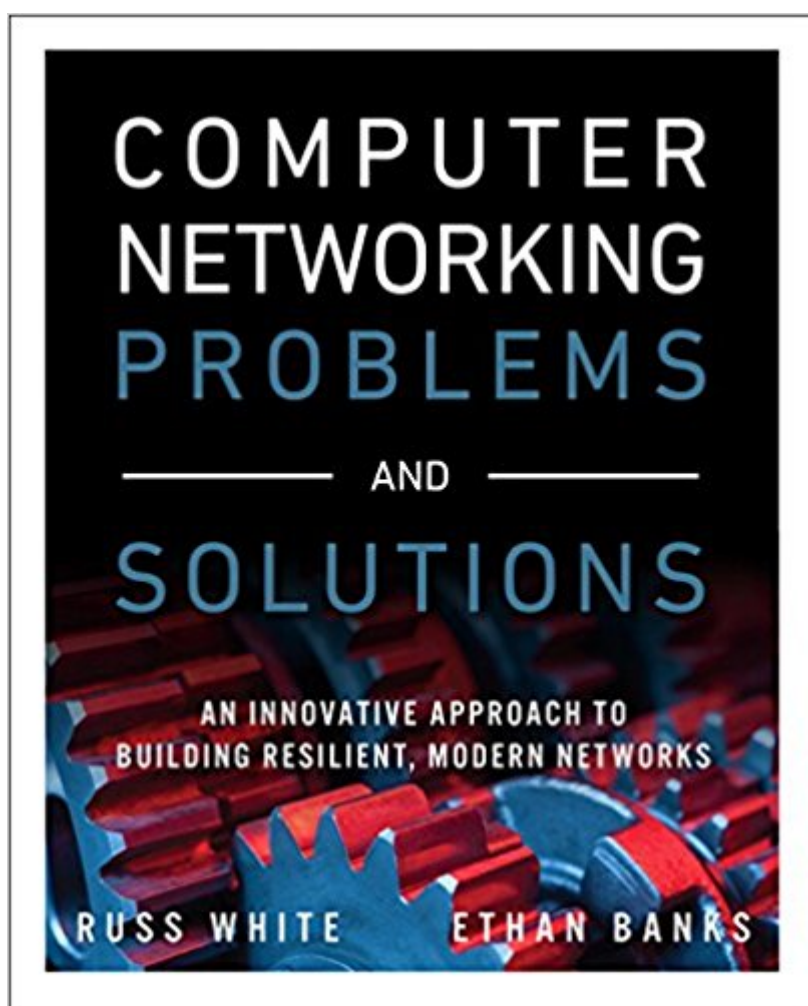


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Computer Networking Problems And Solutions: An Innovative Approach To Building Resilient, Modern Networks



Synopsis

Computer Networking Problems and Solutions offers a new approach to understanding networking that not only illuminates current systems but prepares readers for whatever comes next. This guide's problem-solving approach reveals why modern computer networks and protocols are designed as they are, by explaining the problems any protocol or system must overcome, considering common solutions to those problems, and providing examples of these solutions as they've been implemented in protocols both old and new. This book's three sections each cover a different set of problems and solutions. Section I considers data transport (the data plane). Section II covers protocols used to discover and use topology and reachability information (the control plane). Section III considers some common network designs and architectures, including data center fabrics, MPLS cores, and modern Software-Defined Wide Area Networks (SD-WAN). The principles that underlie such technologies as Software Defined Networks (SDNs) are considered throughout the book, as solutions to the common problems faced by all networking technologies. Computer Networking Problems and Solutions is ideal for beginning network engineers, students just starting out in computer networks, and experienced engineers seeking a deeper understanding of the technologies they use every day. Whatever their background, it will help readers quickly recognize problem/solution patterns constantly encountered in computer networks, and quickly apply this knowledge with new protocols, solutions, systems, and network environments.

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