Networks for Computer Scientists and Engineers

Youlu Zheng, Shakil Akhtar

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Networks for Computer Scientists and Engineers is a data communications and networks textbook with a unique software projects and laboratory-based approach. Due to its innovative and distinctive features, it has won unanimous recommendation and partial sponsorship by the curriculum development committee of the National Science Foundation. Designed for undergraduate students, it covers both fundamental theory and modern technologies. The Instructor's Manual and CD (available to adopters) provide step-by-step instructions for configuring client/server computers, hubs, routers, and switches to construct a cost-effective prototype network lab with implementation of web (http), email, VPN, and other servers. This prototype lab is based on Linux and other popular platforms, demonstrates how different protocols and components are integrated into a heterogeneous network, and provides an ideal environment for troubleshooting and experimental network management. The book's accompanying software projects--included on the instructor's CD--are not merely samples but complete software packages with real applications and utilities written in Java, C, C++, assembly language, and thoroughly tested by professors and students at several universities. Used together, *Networks for Computer Scientists and Engineers* and the accompanying laboratory projects actively engage students in the learning process and provide opportunities for critical thinking, problem solving, and creativity in a controlled real-world setting.

Features

· Covers LAN, WAN, wireless, and high-speed networking technologies; OSI seven layers; data communications; and network performance, programming, management, and security

· Includes networking projects with directions and sample solutions

· Features numerous figures, examples, summaries, review questions, references, and a glossary

· Contains problem sets and up-to-date World Wide Web sites related to each chapter

· Provides answers to the review questions and step-by-step instructions in the accompanying Instructor's Manual

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