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Network Routing: Fundamentals, Applications and Emerging
 Technologies serves as single point of reference for both advanced
 undergraduate and graduate students studying network routing,
 covering both the fundamental and more moderately advanced
 concepts of routing in traditional data networks such as the Internet,
 and emerging routing concepts currently being researched and
 developed, such as cellular networks, wireless ad hoc networks, sensor
 networks, and low power networks. Furthermore, QoS routing, and
 security and reliability are also discussed. Additionally, the book
 assesses the need for the different technologies, techniques and
 solutions for given problems in network routing, and provides model
 solutions. Apart for conventional network routing topics, certain
 sections in various chapters cover contemporary topics like challenges

in mobile computing, interoperability and applications of low power wireless personal area network, network management, mobile agents, attack surface, tactical networks, and cognitive security. * Focuses on key concepts in different network technologies (e.g. the Internet, wireless ad hoc networks etc.) * Provides a single point of reference on network routing * Discusses techniques for given problems in network routing, and provides model solutions * Explores advanced concepts in network routing such as security and reliability and fault-tolerance * Includes an accompanying website containing PowerPoint slides and solutions to questions www.wiley.com/go/misra2204 This book is unique. It deals with routing in multiple generations of communication / from NSFNet to IoT, passing through ATM, MPLS, ad hoc, cellular, and wireless sensor networks in-between. This will clearly have a differentiating value for the readers. The technology is changing at an unprecedented pace, and the modern-day networks are significantly different from how they looked just a decade ago. This has resulted in numerous design challenges, security concerns, mobile agents, network-centric operations, cognitive capabilities, and much more. This book is distinct as it touches significantly upon all communication technologies on the anvil for the near future, apart from its coverage of routing in past networks. Raj Jain, Fellow of IEEE, ACM, and AAAS, Barbara H and Jerome R Cox, Jr, Professor of Computer Science and Engineering, Washington University, St Louis, MO, USA.
