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Sommario/riassunto

An extensive reference and a practical guide to global network design, operations and engineering practices. The telecommunications industry has advanced in rapid, significant and unpredictable ways into the 21st century. Global Networks: Engineering, Operations and Design is an in-depth look at current and developing trends, and addresses the complex issues of designing, introducing, and managing cutting-edge communications technologies for networks of scale. The author draws upon his considerable experience in the telecommunications industry to educate engineers designing equipment and systems on the hardware and software features essential to fault tolerant operation. Design practices for network elements, management systems and IT systems are addressed in detail, and how they enable scalable engineering and operations practices. Global Networks is a complete and thorough assessment of communications networks and technologies today, written by an author of international renown. Key features: . Comprehensive treatment of the key design practices and technologies associated with the design of data, wireline and wireless networks, including equipment, systems and network design. Analysis of network outages, highlighting design and operating practices that prevent them. Written in an accessible style and fully illustrated, it offers a complete and up-to-date picture of communications technologies from initial design through to service introduction and operation. Examines future challenges such as the Exabyte traffic growth and an assessment of the dual roles of IPV4 and IPV6.
