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limitations; 2.4.3. IEEE 1588-2008 and PTPv2; 2.5. The concept of "profiles"; 2.5.1. Frequency profile; 2.5.2. Phase and time profile (ITU-T G.8275.1); 2.6. Other packet-based protocols; 2.6.1. Packet-based timing: starting with CES; 2.6.2. Dedicated timing TDM PW; 2.6.3. NTP; 2.6.4. Summary and comparison; 2.7. GNSS and other radio clock sources; 2.7.1. Global and regional space-based timing system; 2.7.2. Regional terrestrial systems; 2.7.3. Comparison; 2.8. Summary; 2.9. Bibliography

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Sommario/riassunto

This book addresses the multiple technical aspects of the distribution of synchronization in new generation telecommunication networks, focusing in particular on synchronous Ethernet and IEEE1588 technologies. Many packet network engineers struggle with understanding the challenges that precise synchronization distribution can impose on networks. The usual "why", "when" and particularly "how" can cause problems for many engineers. In parallel to this, some other markets have identical synchronization requirements, but with their own design requirements, generating further questions. This bo
