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	 2.2.2 Orbital parameters; 2.3 The geostationary satellite; 2.3.1 Orbit parameters; 2.3.2 Launching the satellite; 2.3.3 Distance to the satellite; 2.3.4 Propagation delay 2.3.5 Conjunction of the sun and the satellite2.3.6 Orbit perturbations; 2.3.7 Apparent satellite movement; 2.3.8 Orbit corrections; 2.3.9 Doppler effect; 2.4 Satellites for VSAT services; 3 Operational aspects; 3.1 Installation; 3.1.1 Hub; 3.1.2 VSAT; 3.1.3 Antenna pointing; 3.2 The customer's concerns; 3.2.1 Interfaces to end equipment; 3.2.2 Independence from vendor; 3.2.3 Set-up time; 3.2.4 Access to the service; 3.2.5 Flexibility; 3.2.6 Failure and disaster recovery; 3.2.7 Blocking probability; 3.2.8 Response time; 3.2.9 Link quality; 3.2.10 Availability; 3.2.11 Maintenance 3.2.12 Hazards3.2.13 Cost; 4 Networking aspects; 4.1 Network functions; 4.2.3 Protocols; 4.2.4 Delay; 4.2.5 Throughput; 4.2.6 Channel efficiency; 4.2.7 Channel utilisation; 4.3 Traffic characterisation; 4.3.1 Traffic forecasts; 4.3.2 Traffic measurements; 4.3.3 Traffic source modelling; 4.4 The OSI reference model for data communications; 4.4.1 The physical layer; 4.4.2 The data link layer; 4.4.3 The network layer; 4.4.4 The transport layer; 4.4.5 The upper layers (5 to 7); 4.5 Application to VSAT networks 4.5.1 Physical and protocol configurations of a VSAT network4.5.2 Protocol conversion (emulation); 4.5.3 Reasons for protocol conversion; 4.6 Multiple access; 4.6.3 Star-shaped networks; 4.6.4 Fixed assignment versus demand assignment; 4.6.5 Random time division multiple access; 4.6.6 Delay analysis; 4.6.7 Conclusion; 4.7 Network design; 4.7.1 Principles; 4.7.2 Guidelines for preliminary dimensioning; 4.7.3 Example; 4.8 Conclusion; 5 Radio frequency link analysis; 5.1 Principles; 5.1.1 Thermal noise; 5.1.2 Interference noise 5.1.3 Intermodulation noise
Sommario/riassunto	VSAT Networks: Second Edition covers all the important issues involved with the installation of VSAT systems. Since the first edition was published, the VSAT market has continued to expand steadily. VSAT technologies have advanced, prompting an increase in the take- up of VSAT services. Offering a comprehensive introduction to the topic followed by a detailed exploration of multiple access protocols, delay analysis and system dimensioning, this edition is a highly relevant update of VSAT Networks. Written by a well respected and established member of the satellite community