

Top space experts from around the world have collaborated to produce this comprehensive, authoritative, and clearly illustrated reference guide to the fast growing, multi-billion dollar field of satellite applications and space communications. This handbook, done under the auspices of the International Space University based in France, addresses not only system technologies but also examines market dynamics, technical standards and regulatory constraints. The handbook is a completely multi-disciplinary reference book that covers, in an in-depth fashion, the fields of satellite telecommunications, Earth observation, remote sensing, satellite navigation, geographical information systems, and geosynchronous meteorological systems. It covers current practices and designs as well as advanced concepts and future systems. It provides a comparative analysis of the common technologies and design elements for satellite application bus structures, thermal controls, power systems, stabilization techniques, telemetry, command and control (TTC), and orbital configurations. These common aspects are addressed in an integrated fashion to explain how all these space systems share similar design features, but also have quite specialized application packages to carry out their various missions. No other reference in print today provides such a comprehensive and in-depth guide to all forms of application satellites, including small sats as used by countries just beginning space application programs.

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