



Satellite Systems: Principles and technologies

Bruno Pattan

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Satellite Systems: Principles and technologies Bruno Pattan

This reader-friendly resource covers the broad spectrum of satellite principles and their associated technologies. While other books limit their coverage to specialized services or to satellite payloads such as communication satellites, *Satellite Systems* focuses upon the methodology of launching satellites, keeping them there, the environments under which they operate, and other facets particular to their operation. Pattan's detailed, elaborate approach does not assume that the reader is versed in esoteric mathematics. *Satellite Systems* is specific enough to be a valuable working-tool to scientists and engineers in related fields, yet general enough to be accessible to students and interested lay people. Pattan thoroughly explores the concepts and technologies of satellite systems in simple, direct terms. *Satellite Systems* includes precise coverage of:

- *various orbits and the services they provide
- *international launch of vehicles and launch sites
- *phased array antennas for satellite network applications
- *mobile satellite services from land vehicles, aircraft, and ships
- *low orbit satellites for telecommunication and position determination applications
- *international frequency allocations for satellite control, payload management, and status
- *geometric relationships between satellite and Earth stations used in interference analysis, orbit determination, and location
- *the hostile environments in which satellites operate and cope
- *and much more

Satellite Systems is a self-contained, extensive introduction that offers professionals and advanced undergraduate and graduate students of satellite systems the tools they need for in-depth understanding of the complexities of the subject. It is ideal as both a reference and a training text for engineers, technicians, communication lawyers, weather professionals, telecommunications experts, students, and anyone interested in satellites and satellite technology.

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