



Fundamentals of Satellite Remote Sensing

Emilio Chuvieco

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An extensive review of remote sensing principles with an emphasis on environmental applications, **Fundamentals of Satellite Remote Sensing** discusses a wide range of topics, from physical principles to data acquisition systems and on to visual and digital interpretation techniques. The text focuses on the interpretation and analysis of remote sensing images and how they improve our understanding of environmental processes and their interaction with human activities.

The authors discuss new interpretation approaches, including hyperspectral analysis, high-spatial resolution data, and radiative transfer models. The presentation includes an analysis of accuracy assessment methods and demonstrates how to integrate remote sensing results with geographic information systems. It also covers recent missions, such as Terra-Aqua, Envisat, Ikonos-Quickbird-Geoeye and SPOT-5, as well as LIDAR and interferometric radar.

The discussion of visual criteria to extract interpretation from satellite images emphasizes differences and similarities with conventional photo-interpretation techniques. A chapter on accuracy assessment and the connection between remote sensing and geographic information systems helps readers extend the interpretation of satellite images to a more operational, applications-oriented framework.

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