



Multispectral Remote Sensing Systems

Most citations come from the main text book: Jensen, J.R., 2007, Remote Sensing of the Environment: an Earth resource perspective, 2nd ed., Prentice Hall, 592p



Multispectral Remote Sensing Systems

- **Multispectral remote sensing systems** record **reflected or emitted energy** from an object or area of interest in **multiple bands** (regions) of the electromagnetic spectrum.
- **Hyperspectral remote sensing systems** record data in **hundreds of bands**.
- **Ultraspectral remote sensing systems** collect data in **thousands of bands**.



Multispectral Remote Sensing Systems

Digital Multispectral Data Collection

- An overview of how digital remote sensing data are turned into useful information



Multispectral Remote Sensing Systems

Digital Multispectral Data Collection

- Digital Image Terminology



Multispectral Remote Sensing Systems

Digital Multispectral Data Collection

- Remote Sensing Systems to be Examined



Multispectral Remote Sensing Systems

Multispectral Imaging Using Discrete Detectors and Scanning Mirrors

- Earth Resource Technology Satellites and Landsat Sensor Systems



Multispectral Remote Sensing Systems

Multispectral Imaging Using Discrete Detectors and Scanning Mirrors

- Landsat Multispectral Scanner



Multispectral Remote Sensing Systems

Multispectral Imaging Using Discrete Detectors and Scanning Mirrors

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Multispectral Remote Sensing Systems

Multispectral Imaging Using Discrete Detectors and Scanning Mirrors

- Landsat Thematic Mapper



Multispectral Remote Sensing Systems

Multispectral Imaging Using Discrete Detectors and Scanning Mirrors

- Landsat Enhanced Thematic Mapper Plus



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Multispectral Remote Sensing Systems

Multispectral Imaging Using Linear Arrays

- Spot Sensor Systems



Multispectral Remote Sensing Systems

Multispectral Imaging Using Linear Arrays

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Multispectral Remote Sensing Systems Spectrometry Using Linear & Area Arrays

- AVIRIS