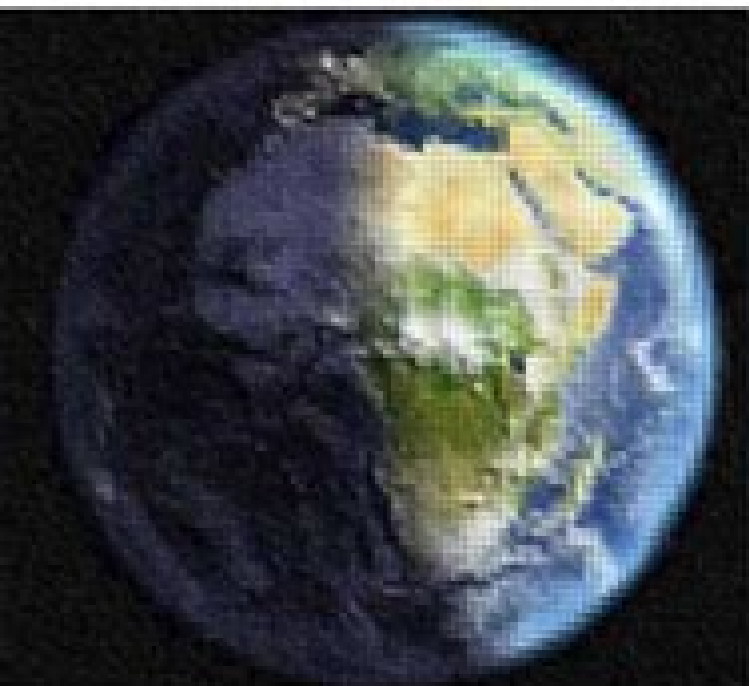


Physical Principles of Remote Sensing



Thermal Remote Sensing

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Remote Sensing Physics Rick Chapman, Richard Gasparovic, 2022-03-15 An introduction to the physical principles underlying Earth remote sensing The development of spaceborne remote sensing technology has led to a new understanding of the complexity of our planet by allowing us to observe Earth and its environments on spatial and temporal scales that are unavailable to terrestrial sensors *Remote Sensing Physics An Introduction to Observing Earth from Space* is a graduate level text that examines the underlying physical principles and techniques used to make remote measurements along with the algorithms used to extract geophysical information from those measurements Volume highlights include Basis for Earth remote sensing including ocean land and atmosphere Description of satellite orbits relevant for Earth observations Physics of passive sensing including infrared optical and microwave imagers Physics of active sensing including radars and lidars Overview of current and future Earth observation missions Compendium of resources including an extensive bibliography Sample problem sets and answers available to instructors The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

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