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remote sensing is the process of detecting and monitoring the physical characteristics of an area by measuring its reflected and emitted radiation at a distance typically from satellite or aircraft remote sensing is the acquisition of information about an object or phenomenon without making physical contact with the object in contrast to in situ or on site observation the term is applied especially to acquiring information about earth and other planets remote sensing is the acquiring of information from a distance nasa observes earth and other planetary bodies via remote sensors on satellites and aircraft that detect and record reflected or emitted energy remote sensing is the science of obtaining the physical properties of an area without being there it allows users to capture visualize and analyze objects and features on the earth s surface by collecting imagery we can classify it into land cover and other types of analyses remote sensors collect data by detecting the energy that is reflected from earth these sensors can be on satellites or mounted on aircraft remote sensors can be either passive or active remote sensing is the science and to some extent art of acquiring information about the earth s surface without actually being in contact with it this is done by sensing and recording reflected or emitted energy and processing analyzing and applying that information what is remote sensing remote sensing is obtaining information about an object from a distance there are different ways to collect data and different sensors are used depending on the application some methods collect ground based data others airborne or spaceborne what information do you need how much detail science of remote sensing is part of the remote sensing of environment family of journals this open access peer reviewed journal focuses on publishing high impact science and applications using state of the art remote sensing techniques science and application themes include the following earth view full aims scope 1750 remote sensing means observing something from a distance satellites observe the earth from space and help scientists study large tracts of land and how that land changes over time remote sensing of environment rse serves the earth observation community with the publication of results on the theory science applications and technology of studies contributing to advance the science of remote sensing remote sensing is obtaining information about an object from a distance photography is a very common form of remote sensing there are different ways to collect data and different sensors are used depending on the application some methods collect ground based data others airborne or spaceborne remote sensing satellites orbit earth bringing data to researchers and decision makers around the world here s an introduction to satellites and remote sensing science there exist two main types of remote sensing classified according to the source of signal they use to explore the object active vs passive active remote sensing instruments operate with their own source of emission or light while passive ones rely on the reflected one what is remote sensing remote sensing is an advanced surveying and data analysis methodology that uses airborne sensors to document important environmental or structural information faster and more accurately than ever before international journal of remote sensing ijrs is a subscription based peer reviewed journal publishing international research on remote sensing of the atmosphere biosphere cryosphere and the terrestrial earth as well as human modifications to the earth system remote sensing is the science and art of identifying observing and measuring an object without coming into direct contact with it this involves the detection and measurement of radiation of different wavelengths reflected or emitted from distant objects or materials by which they may be identified and categorized an overview of remote sensing remote sensing is the examination of an area from a significant distance it is used to gather information and imaging remotely this practice can be done using devices such as cameras placed on the ground ships aircraft satellites or even spacecraft what is remote sensing remote sensing is a technology for acquiring information about the earth s surface without actually being in contact with it this is done by sensing and recording reflection or emitted energy processing analyzing and applying that information in practice remote sensing is the use of a variety of devices for gathering information on a given object or area the practice of detecting and monitoring the physical features of a place by measuring its reflected and emitted radiation from a distance is remote sensing learn more about its types uses advantages and disadvantages

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remote sensors collect data by detecting the energy that is reflected from earth these sensors can be on satellites or mounted on aircraft remote sensors can be either passive or active

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