



Fundamentals of Polarimetric Remote Sensing

By John R. Schott

New Age International (P) Limited, 2010. Softcover. Book Condition: New. First edition. Polarimetric remote sensing offers the potential to provide a new dimension for observations of the earth. This book takes a systems approach to the physical processes involved with formation, collection, and analysis of polarimetric remote sensing data in the visible through longwave infrared. The emphasis is on earth observation at human scales (i.e., ground sample distances of fractions of a meter to tens of meters) where the contrast between manmade objects and natural backgrounds are typical subjects of interest. The text is targeted at individuals with a sound quantitative understanding of remote sensing who need an introduction to polarimetric signals as they relate to remote sensing. It includes a brief review of the polarized nature of electromagnetic energy and radiometry and introduces ways to characterize a beam of polarized energy (Stokes vectors) and polarized energy matter interactions (Mueller matrices). The polarized bidirectional reflectance distribution function (pBRDF) is introduced as a way to characterize the reflective and emissive polarimetric behavior of materials. This allows for the development of a governing equation for radiometric propagation of polarimetric energy, including atmospheric sources and losses. Methods for polarimetric image formation, processing, and...



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