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## Active Multispectral Band Selection and Reflectance Measurement System

By Bradley D. Rennich

Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x5 mm. This item is printed on demand - Print on Demand Neuware - Due to system design requirements, an active multispectral laser radar system may be limited in the number of spectral bands that can be integrated into the system. To aid in the selection of these bands, a novel multispectral band selection technique is presented based on the cross-correlation of the material class reflectance spectra over a wavelength range of 1\_μm { 5\_μm. The algorithm uses directional hemispherical reflectance data from the Nonconventional Exploitation Factors database to select a number of spectral bands for classification purposes. Because the target material spectral reflectance is so important to the performance of an active multispectral system, an experimental monostatic bidirectional reflectance distribution function (BRDF) measurement system is developed and tested. A 1.06\_μm Nd:YAG diode pumped laser is frequency shifted to 1.58\_μm { 1.80\_μm using a periodically poled lithium niobate nonlinear crystal. 90 pp. Englisch.



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