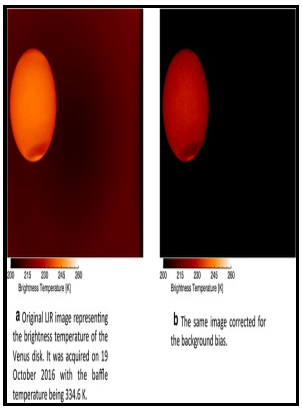
Thermal infrared characterization of ground targets and backgrounds

SPIE Press - Ground



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Tags: #Infrared #Signature #Characterization

Thermal infrared observations and thermophysical characterization of OSIRIS

By measuring the distance between the greatest slope breaks on the temperature profiles Fig.

Thermal Infrared Characterization of Ground Targets and Backgrounds, Second Edition

The exfoliation sheets forming Boot Flake and Texas Flake, which are the focus of our study, consist of Kec with some thin intrusions of Kap and Kdo Fig. Sheeting joints develop close to the surface, usually at less than 30 m depth and are characterized by extensive fractures whose surface trace length known also as persistence can exceed 100 m ,. Vehicles encountered in real-life often have a variety of crew- specific signature components that will affect the signature of a vehicle as well, such as stowage of supplies or spare parts.

Infrared Thermography for Land Mine Detection

Caution must be exercised when using predictive models for simulations because these models are usually pristine and present repeatable signatures for a given set of inputs. Imaging sensor systems in the UV region, frequently used for missile plume detection, have become available. Figure 3 Overview of spectral ranges, in which modern detection systems operate.

[PDF] Infrared landmine detection and thermal model analysis

Properties of 2-D thermal modeling of the lower half of Boot Flake.

Ground

The developed SW predicts the surface temperature of the cuboid considering the real-time weather data from measurements. Detection-system designers select features and system parameters to achieve the highest possible detection probability for a large variety of sensor-target-background scenarios under various weather conditions. Characterization of rock discontinuities and rock bridges is required to define stability conditions of fractured rock masses in both natural and engineered environments.

[PDF] Infrared landmine detection and thermal model analysis

Determination of calibration parameters We calibrated the emissivity of El Capitan Granite at the foot of the southeast cliff face from reference temperatures given by four platinum resistance temperature detectors Pt100 type sensors with accuracy of ±0.

Study on thermal behavior of a cuboid on reflecting platforms under transient weather conditions

The 2 m 2 plastic tarpaulin PT was half covered with crumpled, then uncrumpled, aluminum foil RP. This moderate grain size is also consistent with low spectral contrast in the 7. This functionality is provided solely for your convenience and is in no way intended to replace human translation.

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