

FUSION OF PASSIVE AND ACTIVE MICROWAVE SENSORS DATA FOR ENHANCEMENT OF GEOPHYSICAL FEATURE

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ABSTRACT

In microwave remote sensing the passive sensor measures the brightness temperature, which depends upon the physical temperature and emissivity. The active sensor measures scattering coefficient. These parameters are function of geophysical parameters of the natural materials. When both electrical parameters are used in fusion there is enhancement in the geophysical parameters. The saline soil has been used for study of enhancement of its geophysical parameters using both passive and active sensors. The effects of polarization look angle have also been included for the study. The measured and estimated value of these parameters have been included in the study.