

Polarimetric Submillimeterwave Reflectometry Using a Real-Time Quasi-Optical System

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First measurements of the reflectivity of different natural and artificial materials in the 600 GHz range are reported. The investigations were carried out using a heterodyne broadband dual-polarization reflectometer in quasi-optical technique. Comparing to Fourier-transform spectrometers the described reflectometer is capable to carry out real-time measurements even outside the laboratory. Reflectivity data of several interesting materials are presented in co- and crosspolarization.

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