

Abstracts

A Versatile Millimeter-Wave Imaging System

J.P. Hollinger, J.E. Kenney and B.E. Troy, Jr.. "A Versatile Millimeter-Wave Imaging System." 1976 Transactions on Microwave Theory and Techniques 24.11 (Nov. 1976 [T-MTT] (Special Issue on Millimeter Waves: Circuits, Components, and Systems)): 786-793.

A new millimeter-wave imaging system has been assembled at the Naval Research Laboratory and flight-tested using the NASA/ Wallops C-54 aircraft. The system incorporates an oscillating mirror and interchangeable radiometer units making it particularly adaptable to variations in its operational frequency, polarization, and angular resolution. Flight tests of the system have been conducted at 90 GHz and simultaneously at 22 and 31 GHz using a dual frequency radiometer. The imaging system and data processing are described and some of the initial flight test results at 90 GHz are presented.

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