

Abstracts

A Radiometric Method for Measuring the Insertion Loss of Radome Materials

B.L. Seidel and C.T. Stelzried. "A Radiometric Method for Measuring the Insertion Loss of Radome Materials." 1968 Transactions on Microwave Theory and Techniques 16.9 (Sep. 1968 [T-MTT] (Special Issue on Noise)): 625-628.

Though radomes have been used for years as a means of protecting antennas from the elements, little appears in the literature to aid the engineer in his choice of the radome material to use in a particular installation. This may be due to the fact that many radome materials are adequate when used with a receiving system having a mixer (i.e., relatively hot) front end. However, an improper choice of radome material can seriously degrade a receiving system that employs a maser or other low-noise front end. A radiometric technique for the measurement of insertion loss is described, and a sample calculation, including error analysis, is presented.

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