Abstracts

Calculations of Antenna Temperature, Horizontal Path Attenuation, and Zenith Attenuation Due to Water Vapor in the Frequency Band 150-700 GHz

R.W. McMillan, J.J. Gallagher and A.M. Cook, Jr.. "Calculations of Antenna Temperature, Horizontal Path Attenuation, and Zenith Attenuation Due to Water Vapor in the Frequency Band 150-700 GHz." 1977 Transactions on Microwave Theory and Techniques 25.6 (Jun. 1977 [T-MTT] (Special Issue on the Proceedings of the Second International Conference on Submillimeter Waves and Their Applications)): 484-488.

The results of calculations of antenna temperature at zenith, both with and without the sun viewed as a source, are given. Horizontal path and total zenith attenuation are also calculated. Each of these calculations was made over the frequency band 150-700 GHz, using data from the 24 water-absorption lines between 150 and 1000 GHz.

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