

# Abstracts

## The Screening Potential Theory of Excess Conduction Loss at Millimeter and Submillimeter Wavelengths

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Y.-C. Wang. "The Screening Potential Theory of Excess Conduction Loss at Millimeter and Submillimeter Wavelengths." 1978 *Transactions on Microwave Theory and Techniques* 26.11 (Nov. 1978 [T-MTT]): 858-861.

On using the screening potential theory, the room-temperature excess conduction loss in copper waveguide is explained and calculated. The low-frequency and long-wavelength conductivity with spatial dispersion has been shown to give 30-percent more conduction loss in copper at submillimeter-wave frequency. Good agreement between experimental and theoretical results is obtained.

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