

Abstracts

The High-Power X-Band Planetary Radar at Goldstone: Design, Development, and Early Results

R. Hartop and D.A. Bathker. "The High-Power X-Band Planetary Radar at Goldstone: Design, Development, and Early Results." 1976 Transactions on Microwave Theory and Techniques 24.12 (Dec. 1976 [T-MTT] (1976 Symposium Issue)): 958-963.

Selected critical microwave components for a 400-kW very-long-pulse (several hours) X-band radar system are discussed from theoretical and practical viewpoints. Included are the special-sized waveguide and flanges, hybrid power combiner, couplers, switches, polarizer, rotary joints, feedhorn, and radome. The system is installed on the National Aeronautics and Space Administration/Jet Propulsion Laboratory 64-m-diam reflector antenna at Goldstone, CA.

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