

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 specialized 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.

 [Return to main document.](#)