Abstracts

The Microwave Interferometer for Measuring the Time Displacement of a Projectile Within the Barrel of a Gun (Abstract)

H.C. Hanks, Jr.. "The Microwave Interferometer for Measuring the Time Displacement of a Projectile Within the Barrel of a Gun (Abstract)." 1953 Transactions on Microwave Theory and Techniques 1.1 (Mar. 1953 [T-MTT]): 22-22.

This paper discusses the design and tests of a Microwave Interferometer, an instrument capable of measuring the time-displacement of a projectile within the barrel of a gun. A continuous record of the projectile time-displacement is obtained by using a CW-Doppler radar technique at K-band. A discussion is made of the effect of higher order modes within the gun barrel and of the effect of the leakage of the propellant gases ahead of the projectile.

❑ Return to main document.