Abstracts

Magnetostatic Surface Wave Transducer Design

J.C. Sethares. "Magnetostatic Surface Wave Transducer Design." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 443-446.

Magnetostatic surface wave (MSSW) transducer theory is extended and generalized. A Fourier transform relation is established between MSSW field amplitudes and transducer spatial current distribution. Advanced design equations are presented including: radiation resistance for periodic meander and grating transducers; spatial harmonic amplitudes and radiation resistance for uniform and nonuniform current distribution models; and radiation resistance for apodized transducers.

❑ Return to main document.