

# Abstracts

## Multiple-Beam Microwave Tubes

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*A.S. Pobedonostsev, E.A. Gelvich, M.I. Lopin, A.M. Alexeyenko, A.A. Negirev and B.V. Sazonov. "Multiple-Beam Microwave Tubes." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 1131-1134.*

ISTOK has been developing multiple-beam microwave tubes for the last 35 years and have produced a wide range of microwave and millimeter wave devices which are unique to ISTOK. Multiple-beam klystrons, TWT's, and BWO's provide low operating voltages, high power, low noise, and the possibility of larger operating bandwidth. The devices discussed include mbk's, pulsed multimode multiple-beam TWT's, and multiple-beam BWO's operating at wavelengths as short as 0.2 mm.

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