

# Abstracts

## Unbiased, Sub-Harmonic Mixers for Millimeter Wave Spectrum Analyzers

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*R.J. Matreci and F.K. David. "Unbiased, Sub-Harmonic Mixers for Millimeter Wave Spectrum Analyzers." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 130-132.*

Even harmonic mixers with vastly improved sensitivity and flatness are described for the 18 to 60 GHz bands. Using GaAs antiparallel-pair diodes, conversion loss of 19, 21 and 23 dB is achieved for the 6th, 8th and 10th harmonic respectively of the analyzer's local oscillator.

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