

# Abstracts

## Broadband linearization of a Mach-Zehnder electro-optic modulator

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*E.I. Ackerman. "Broadband linearization of a Mach-Zehnder electro-optic modulator." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 999-1002 vol.3.*

A new analog fiber-optic link architecture uses a standard Mach-Zehnder electro-optic modulator in lithium niobate with a single RF traveling-wave electrode to achieve linearization across greater than an octave bandwidth. A broadband (800-2500 MHz) link with this new architecture has a measured dynamic range of 74 dB (in an instantaneous bandwidth of 1 MHz).

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