

Abstracts

Accurate Error Correction Technique for On-Chip Lightwave Measurements of Optoelectronic Devices

P. Debie and L. Martens. "Accurate Error Correction Technique for On-Chip Lightwave Measurements of Optoelectronic Devices." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1589-1592.

A new and accurate error correction technique for on-chip modulation response measurements of high-frequency optoelectronic devices is presented. Mathematical expressions for the different sources of errors that exist in the measurement system are derived. The new correction technique applied to the modulation response measurement of a strained quantum well laser diode shows excellent agreement with the theoretically expected result.

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