

# Abstracts

## Unique extraction of substrate parameters of common-source MOSFETs

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*Chung-Hwan Kim, Cheon Soo Kim, Hyun Kyu Yu and Kee Soo Nam. "Unique extraction of substrate parameters of common-source MOSFETs." 1999 Microwave and Guided Wave Letters 9.3 (Mar. 1999 [MGWL]): 108-110.*

The unique extraction method of small-signal substrate parameters for MOSFETs is proposed. To cover the output resistance reduction at microwave frequency range, drain substrate resistance as well as drain junction capacitance is considered. Parasitic series resistances are extracted at the zero-gate-bias cold-FET condition using the asymptotic behavior of Z-parameters. The modeled S-parameters fit the measured ones well without any optimization after parameter extraction.

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