



Microwave De-embedding: Chapter 2. Millimeter-Wave Characterization of Silicon Devices under Small-Signal Regime: Instruments and Measurement Methodologies

Gilles Dambrine

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This chapter aims to describe experimental tools and techniques used for on-wafer millimeter (mm)-wave characterizations of silicon-based devices under the small-signal regime. We discuss the basics of scattering parameters (S parameters), high-frequency (HF) noise concept and measurement facilities, and expert details concerning experimental procedures. In this chapter, we describe first the basic notions of the S-parameters concept and its limitations, as well of as those HF noise. Secondly, the main experimental tools such as mm-wave vectorial network analyzer, noise setup, and on-wafer station are depicted. The third part concerns the description and the methodology of on-wafer calibration and de-embedding techniques applied for mm-wave advanced silicon devices. Finally, the last section focuses on the presentation and description of several examples of device characterizations. The main objective of this chapter is to propose a tradeoff between basic information and details of experience.

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