

## Chapter 5

# Extraction of the source and drain series resistances of MOSFETs

### 5.1 Introduction

A MOSFET can be considered, from the modeling point of view, as an intrinsic device in series with the drain resistance  $R_D$  and the source resistance  $R_S$ , as shown in Fig. 5.1. These resistances influence the device operating characteristics and complicate the extraction of the device intrinsic model parameters, which ideally should be independent of these parasitic resistances.

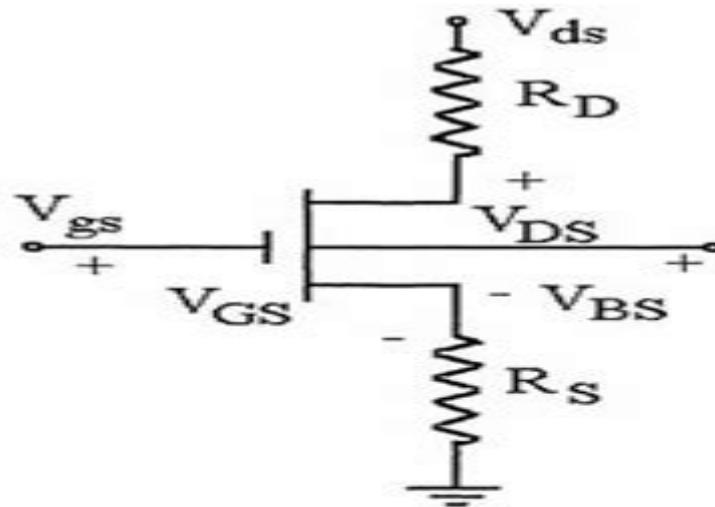


Figure 5.1 : MOSFET equivalent circuit with drain and source series resistances

# Analysis And Design Of Mosfets

**Huangqi Zhang**



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