Scilab Manual for Basic Analog VLSI lab by Dr Sandhya Save Electronics Engineering University of Mumbai[1]

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[1]Funded by a grant from the National Mission on Education through ICT, http://spoken-tutorial.org/NMEICT-Intro. This Scilab Manual and Scilab codes written in it can be downloaded from the "Migrated Labs" section at the website http://scilab.in

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Experiment: 1

CMOS Inverter Amplifier

This code can be downloaded from the website wwww.scilab.in

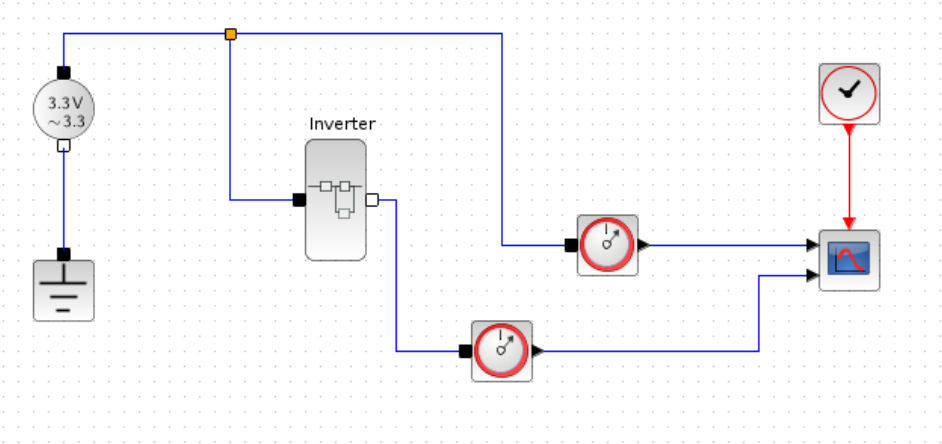

Figure 1.1: CMOS inverter

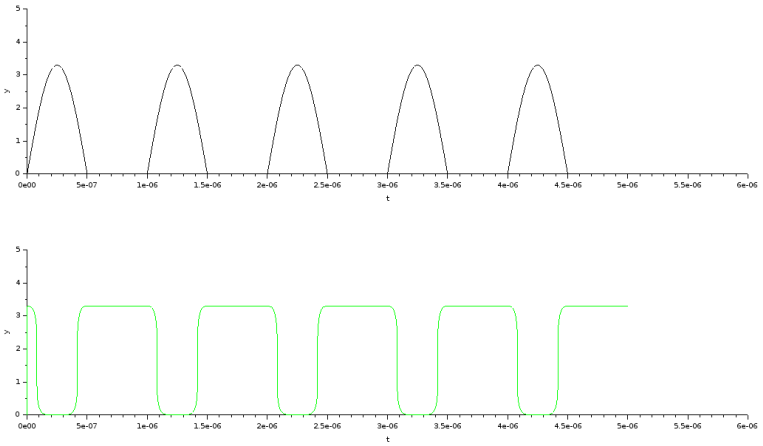

Figure 1.2: CMOS inverter

Experiment: 2

CMOS transmission gate

This code can be downloaded from the website wwww.scilab.in

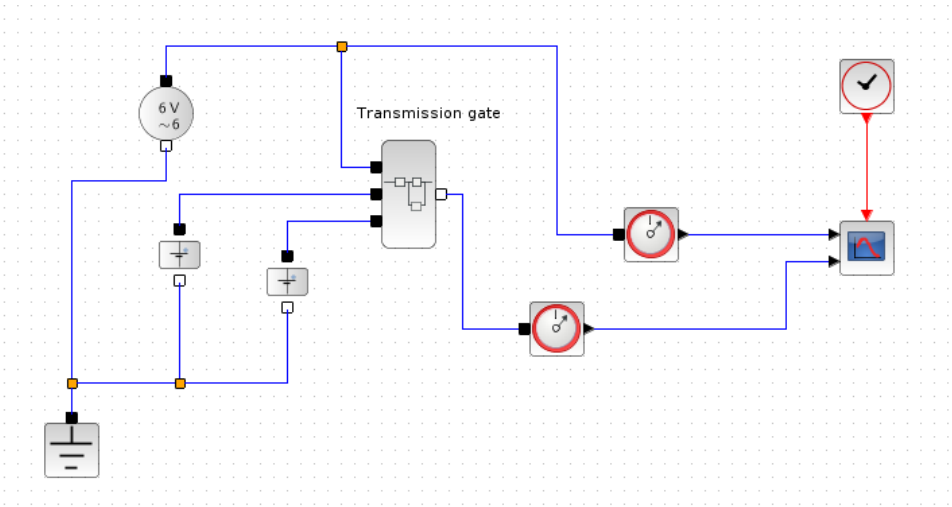

Figure 2.1: CMOS transmission gate

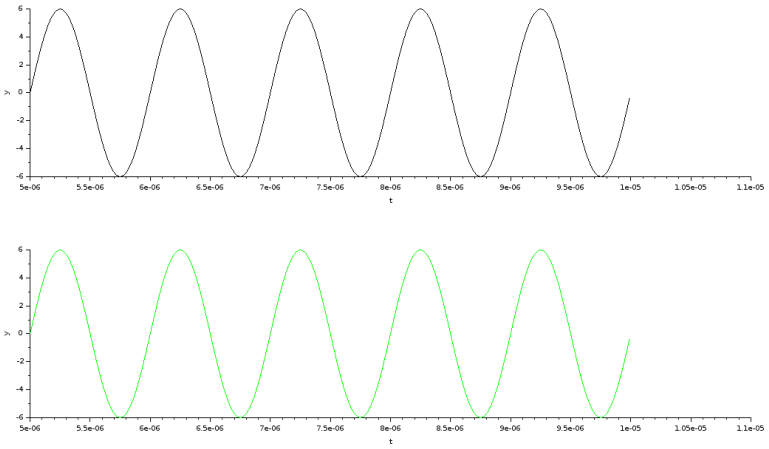

Figure 2.2: CMOS transmission gate

Experiment: 3

NMOS current mirror circuit

This code can be downloaded from the website wwww.scilab.in

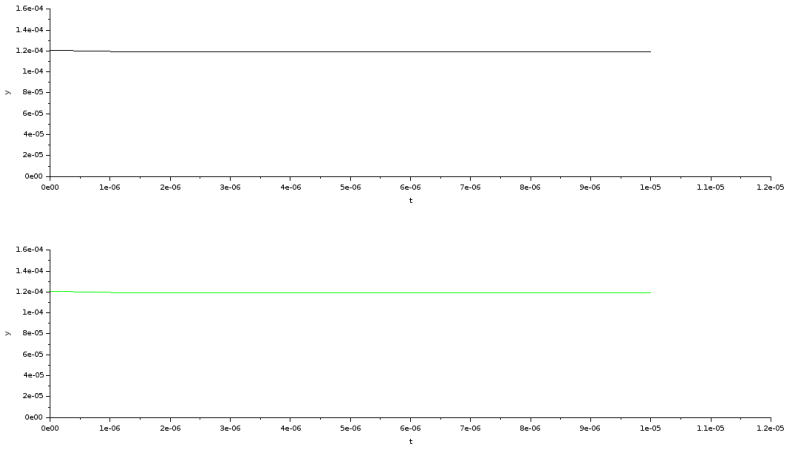

Figure 3.1: Basic current mirror circuit

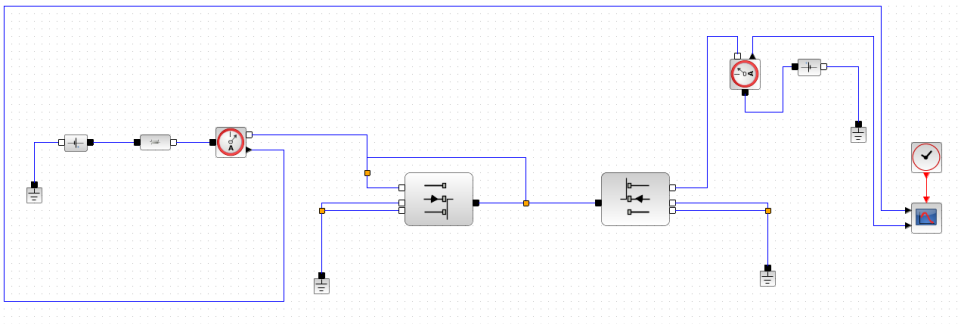

Figure 3.2: Basic current mirror circuit

Experiment: 4

NMOS Cascode current mirror circuit

This code can be downloaded from the website wwww.scilab.in

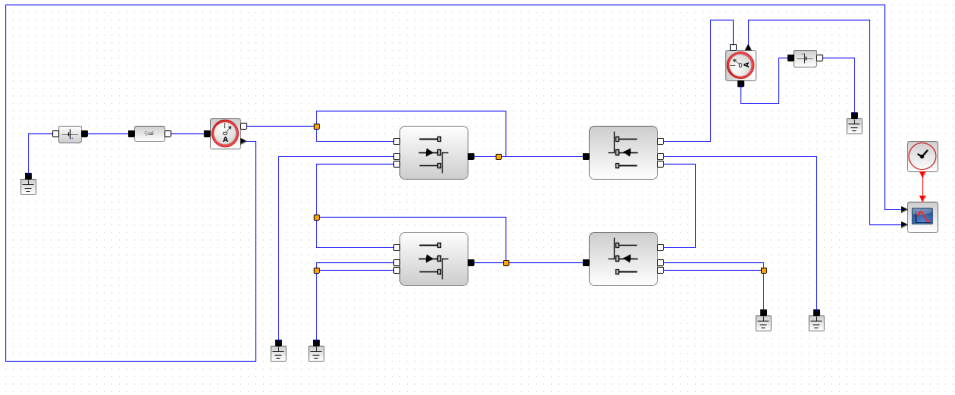

Figure 4.1: Cascode current source

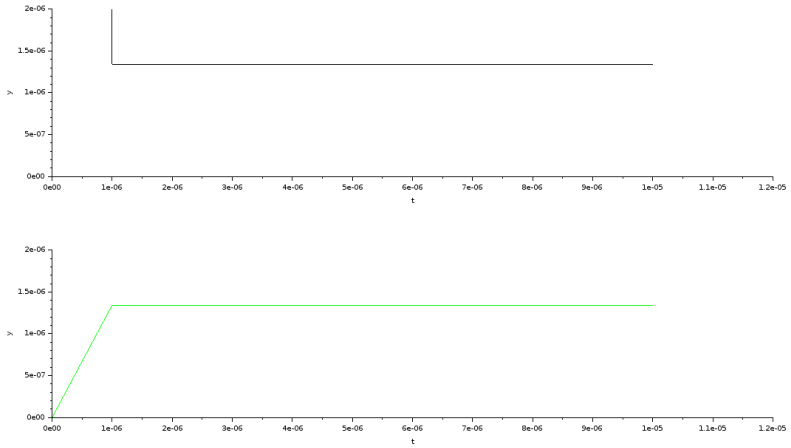

Figure 4.2: Cascode current source

Experiment: 5

NMOS Wilson current mirror circuit

This code can be downloaded from the website wwww.scilab.in

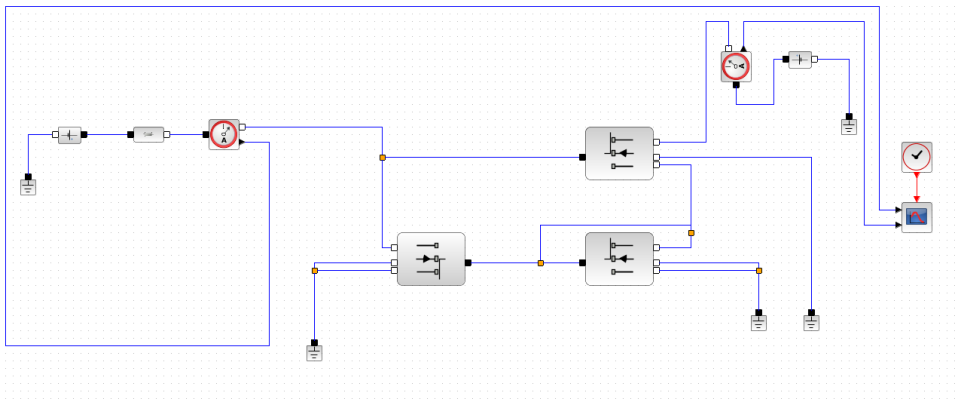

Figure 5.1: Wilson current mirror

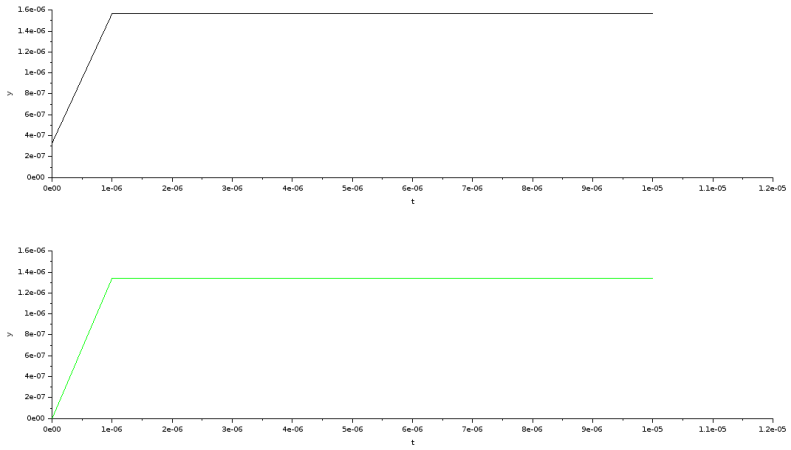

Figure 5.2: Wilson current mirror