

Chapter 6

Current equations

operating regions

DC current + voltage calculations

Mid band gain

small signal model

small signal parameters g_m , g_{mb} , r_{ds}

Amplifier configurations

common source

source follower (common collector)

common gate

Frequency response
capacitances given

Maximum undistorted output voltage

Chapter 9

MOSFET current mirror

calculating current relationship

Designing for a specific current

Active loads

current mirror as a load

Chapter 7

Current equations

operating regions

DC current and voltage calculations

Mid band gain

small signal models

small signal parameters g_m , V_{π} , r_{π} , r_e , r_{ce}

Amplifier configurations

common source, ~~b~~

common base

common collector

Frequency response

variation of capacitance with voltage

Maximum output voltage swing

Chapter 10 (section 1, 3)

BJT current mirrors

Current calculations

Amplifiers with current mirror loads

Chapter 11

Differential amplifier

CMRR

A_D

A_{cm}

Feedback stability

Non-ideal OP Amp Specifications

Input offset voltage

Input bias current

CMRR