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Rust Stain Remover

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Common-Source Topology I (for next series, search for **Razavi**, Electronics 2 or longkong)

calculate the bias conditions for the mosfets

draw the small signal model of the p mo

start with an n type of wafer

start with a p-type wafer

build the p mo's device

calculate the overdrive voltage

bias the transistor

determine the characteristics of the circuit of the amplifier

place the microphone in series with the battery

plot this voltage across R_L as a function of time

write a kvl around this loop

draw the small signal model of the device in saturation

draw the small signal model of the circuit

draw the small signal model of the device

write a kcl at this node

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istics II by Behzad Razavi (Long Kong) 120,236 views 9 years ago 59 minutes - MOS Characteristics
II (for next series, search for **Razavi**, Electronics 2 or longkong)

introduce the concept of regions of operation for the mass device

approximate this parabola by a straight line

build a resistor out of a mosfet

turn it on and off by applying a high voltage

drain voltage

integrate from zero to v_{gs} minus v_{th}

the drain current

visualize the mosfet

draw i_d as a function of v_{gs}

draw a simple symbol for the device

try to build an amplifier using a voltage dependent current source

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Razavi Electronics2 Lec29: Application Examples of Feedback, Properties of Feedback Systems by
Behzad Razavi (Long Kong) 28,727 views 5 years ago 47 minutes - Right we've seen this a number
of times and I will keep repeating it because that's the **fundamental**, property that comes the ...

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Op Amp Basics

Operational Amplifiers

Circuits That Are Based on Op Amps

What an Op-Amp Is

Differential Amplifiers

Why Do We Need an Amplifier with Two Inputs

Why Do We Need To Have an Amplifier with Two Inputs

Voltage Gain

Characteristics of the Op Amp

An Ideal Op-Amp

Observations

Gain of an Op-Amp Is High

Amplifiers That Use Op Amps

Non-Inverting Amplifier

Topology

Common Emitter Amplifier

Amplifier Topology

General Equation for the Gain

The Closed Loop Gain

The Inverting Amplifier

Inverting Amplifier

Virtual Ground

Voltage Gain of the Inverting Amplifier

Input Impedance

Gain Is Not Infinite

Kcl at the Node

Closed Loop Gain

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Sand

Dust

Fire

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Par Mizane

Manam

Ziba

Daste Gol

Cheshm Nazar

Belakhare

Khejalati

Ghalbami Pas

Gorgo Mish

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4.6.5. The Common-Base (CB) Amplifier

4.6.6. The Common-Collector (CC) Amplifier

Summary

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