Lecture #7, Jan 21st, 2022

- Review Chapter 1 and 2 of Razavi book as needed. Course will start with Chapter 3.
- Moving to Chapter 12 next Bandgap References.
- CAD 2 due next Tuesday, Jan 25th.
- Homework 1 out, due today.
- Homework 2 and Project 1 coming shortly.
- Class will be virtual next week.
- Discuss Single-Transistor Amplifier Configurations
 - Common-Gate Amplifier.
 - Common-Drain Amplifier.
 - Example problem.

Common-Gate Amplifier

Von

$$R_0$$
 R_0
 R_0

RIN : APPLY TEST SOURCE.

KCL @ VW

ON NEXT PAGE.

και 🗷 του Common-Gate Amplifier

$$\frac{\partial f}{\partial t} + \frac{\partial f}{\partial t} = 0$$

$$\frac{\partial f}{\partial t} + \frac{\partial f}{\partial t} = 0$$

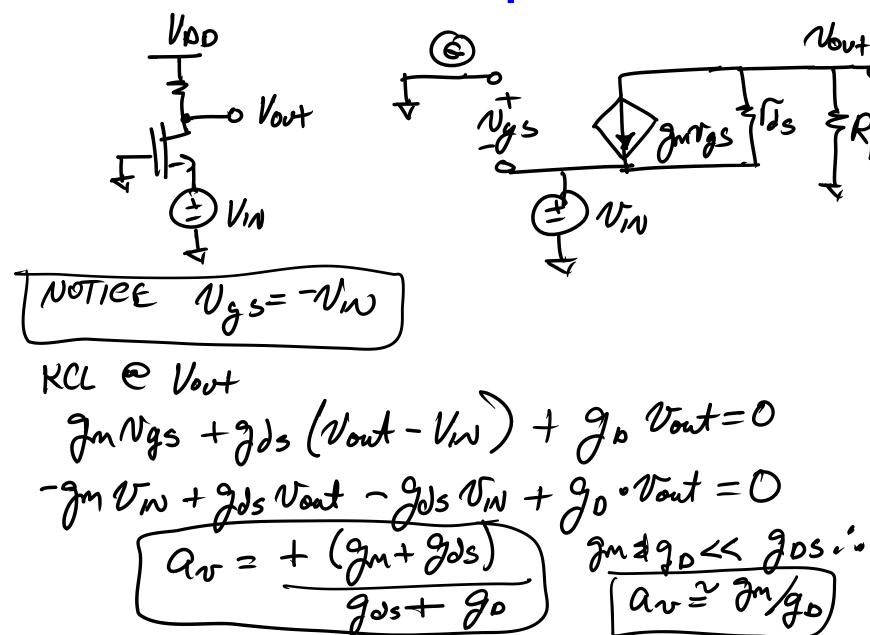
$$\frac{\partial f}{\partial t} + \frac{\partial f}{\partial t} = 0$$

$$\frac{\partial f}{\partial t} + \frac{\partial f}{\partial t} = 0$$

$$\frac{\partial f}{$$

Common-Gate Amplifier

Common-Gate Amplifier



Common-Drain Amplifier

Common-Drain Amplifier Output Resistance