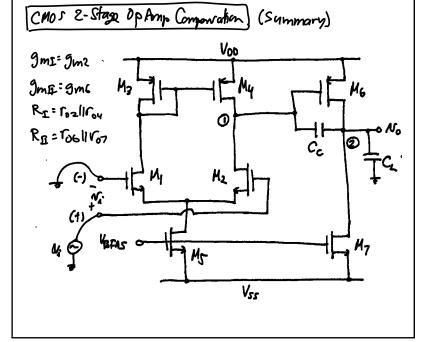
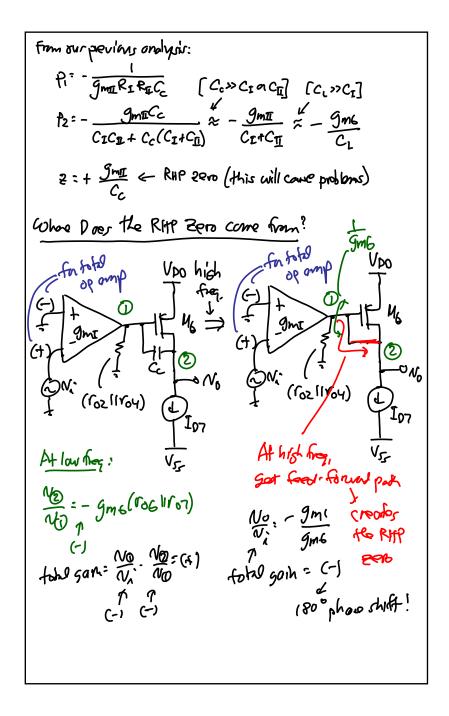
<u>Lecture 22w</u>: RHP Zero

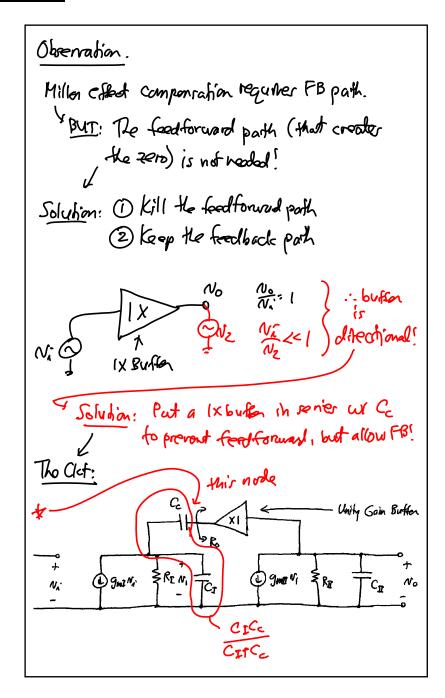
## Lecture 22: RHP Zero

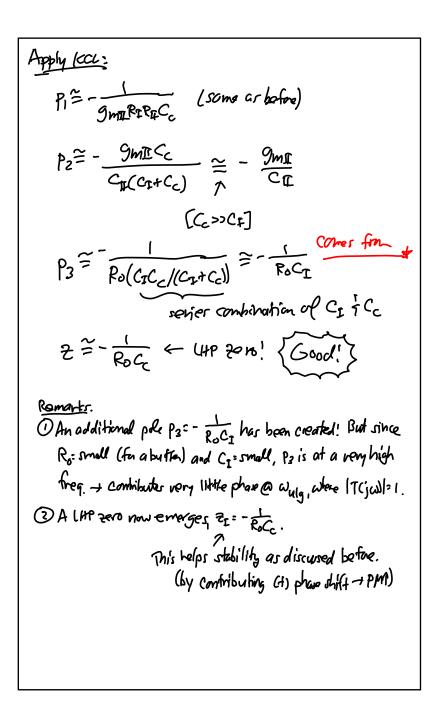
- · Announcements:
- · Design Project Checkpoint:
  - ♦ Due Tuesday, Nov. 19, 11:59 p.m.
  - Send to your TA a spice file for your op amp design that simulates correctly, i.e., that reaches a stable bias point where all transistors are saturated (except MOS R's)
  - ♦ It doesn't need to meet the project specs, but
    it should simulate correctly
- · HW#10 online, due next Wednesday @ 8 a.m.
- Lecture Topics:
  - Nulling the RHP Zero
- -----
- · <u>Last Time</u>:



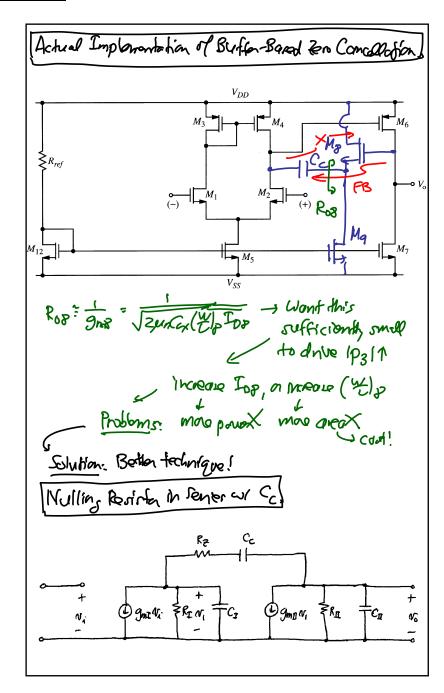


Lecture 22w: RHP Zero

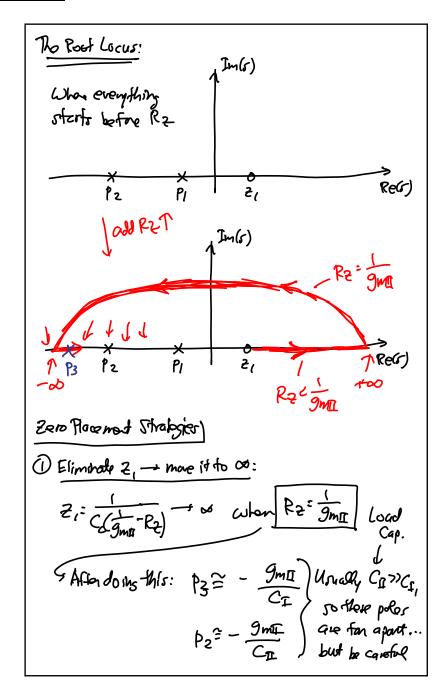




<u>Lecture 22w</u>: RHP Zero

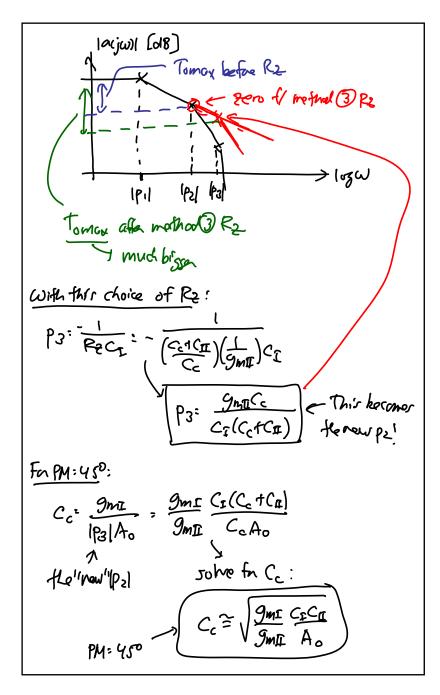


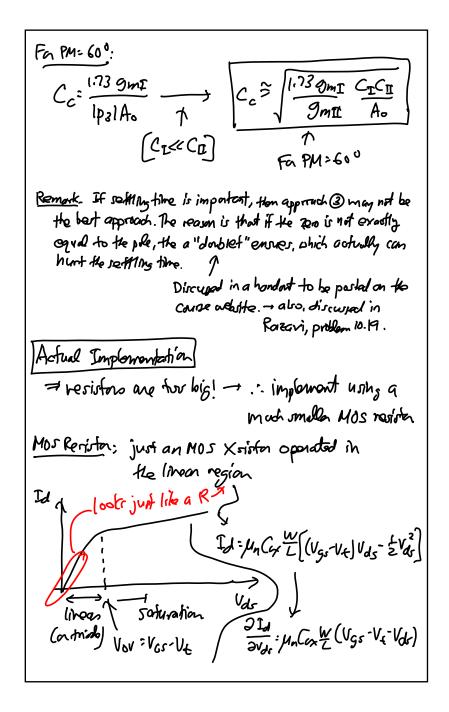
<u>Lecture 22w</u>: RHP Zero



This is good, but we can do hoter: @ Eliminati P3 by placing 2, on top of it: 2,=p3 => (c(g/mq-R2)=-1/R2CI R2: GmIL (1-CI) Afferthis: 1 Pagone; pit palest @ Now, con place Wulf @ p, and really get PM: 450 (Wo warning about the influence of P3) But can still do bette 3 Eliminate pz by placing 21 on top of it! = P3 bosomer to new pz! (histor f; histor Tomas)  $z_1 = p_2 \Rightarrow \overline{C_c(\frac{1}{g_{mir}} - p_2)} = -\frac{g_{mir}}{C_{II}}$ R2: (C+CI)(JMI): JMI (I+ CI)

<u>Lecture 22w</u>: RHP Zero





<u>Lecture 22w</u>: RHP Zero

