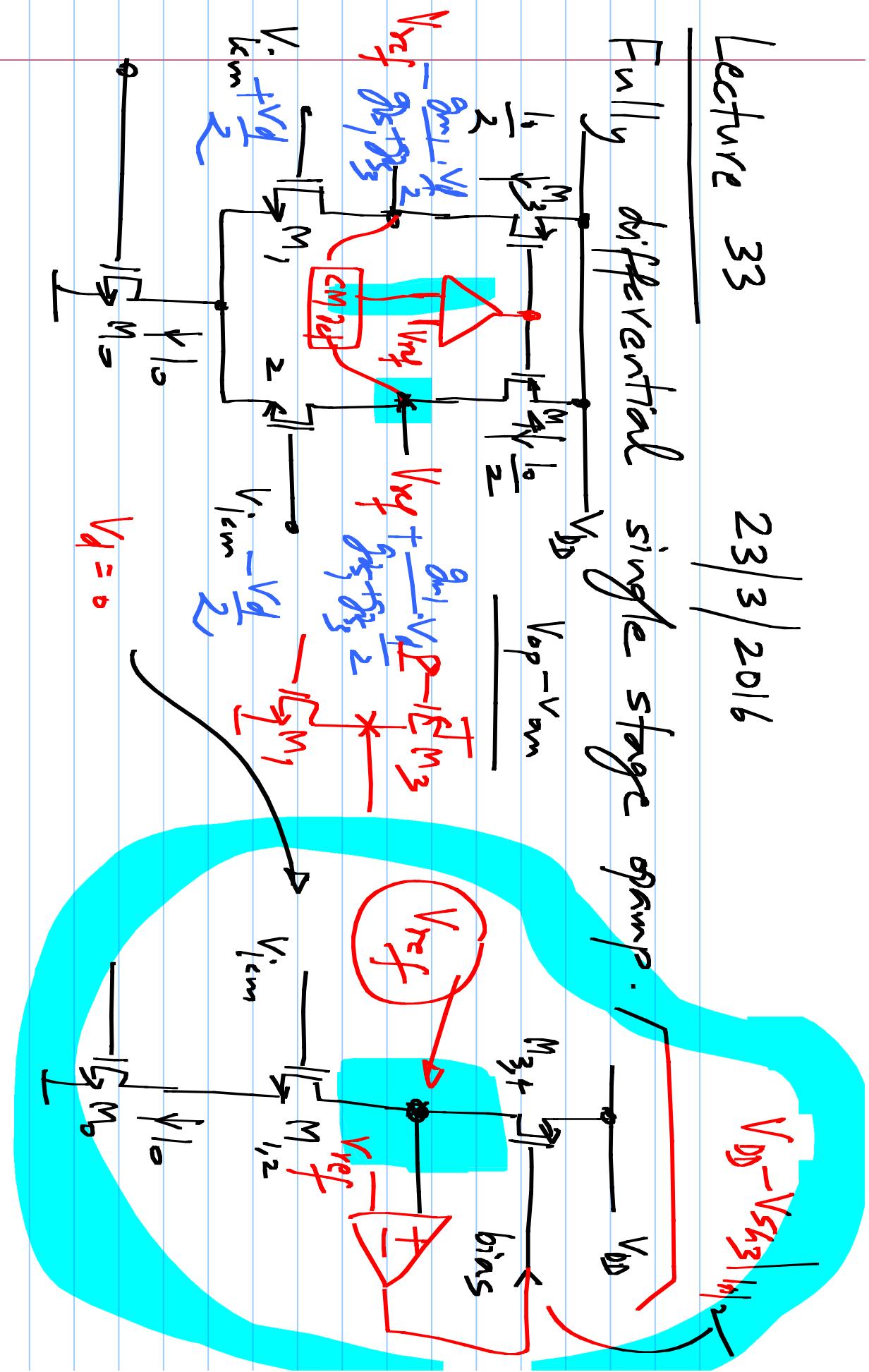
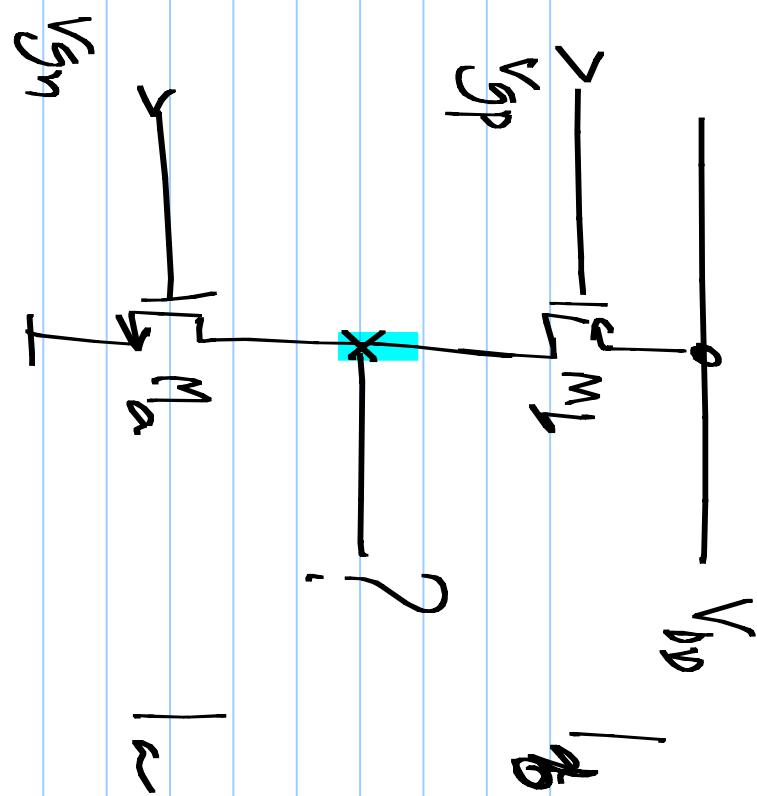


Lecture 33

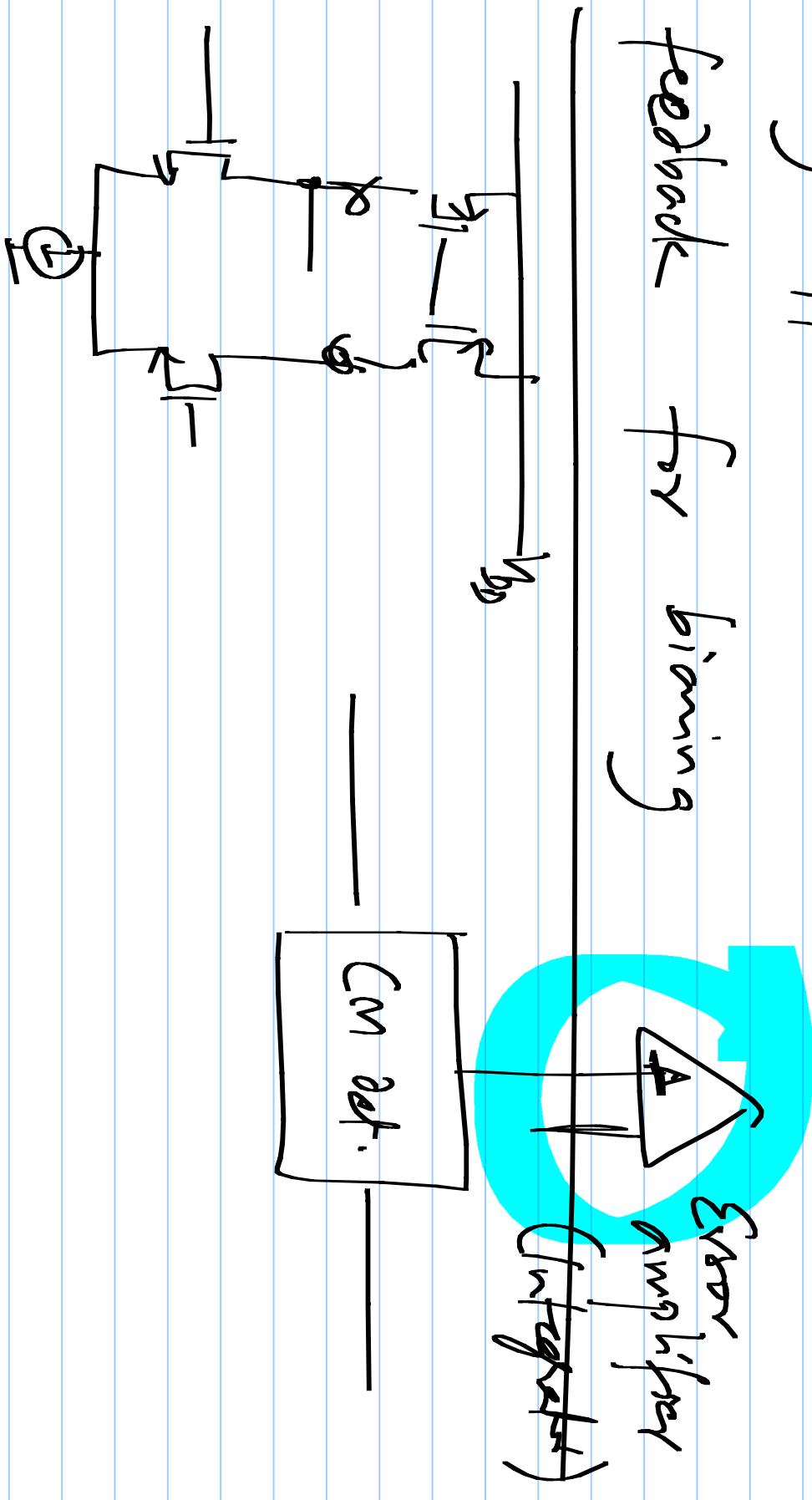
23/3/2016

Fully differential single stage opamp.





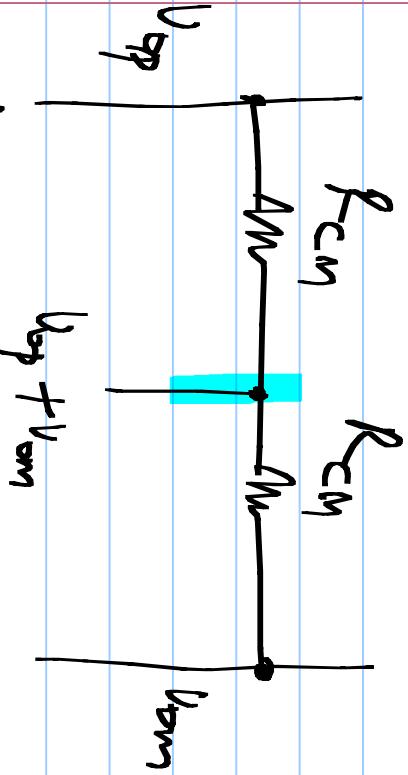
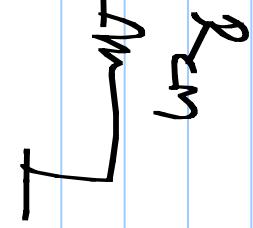
Fully differential circuits need common mode feedback for biasing



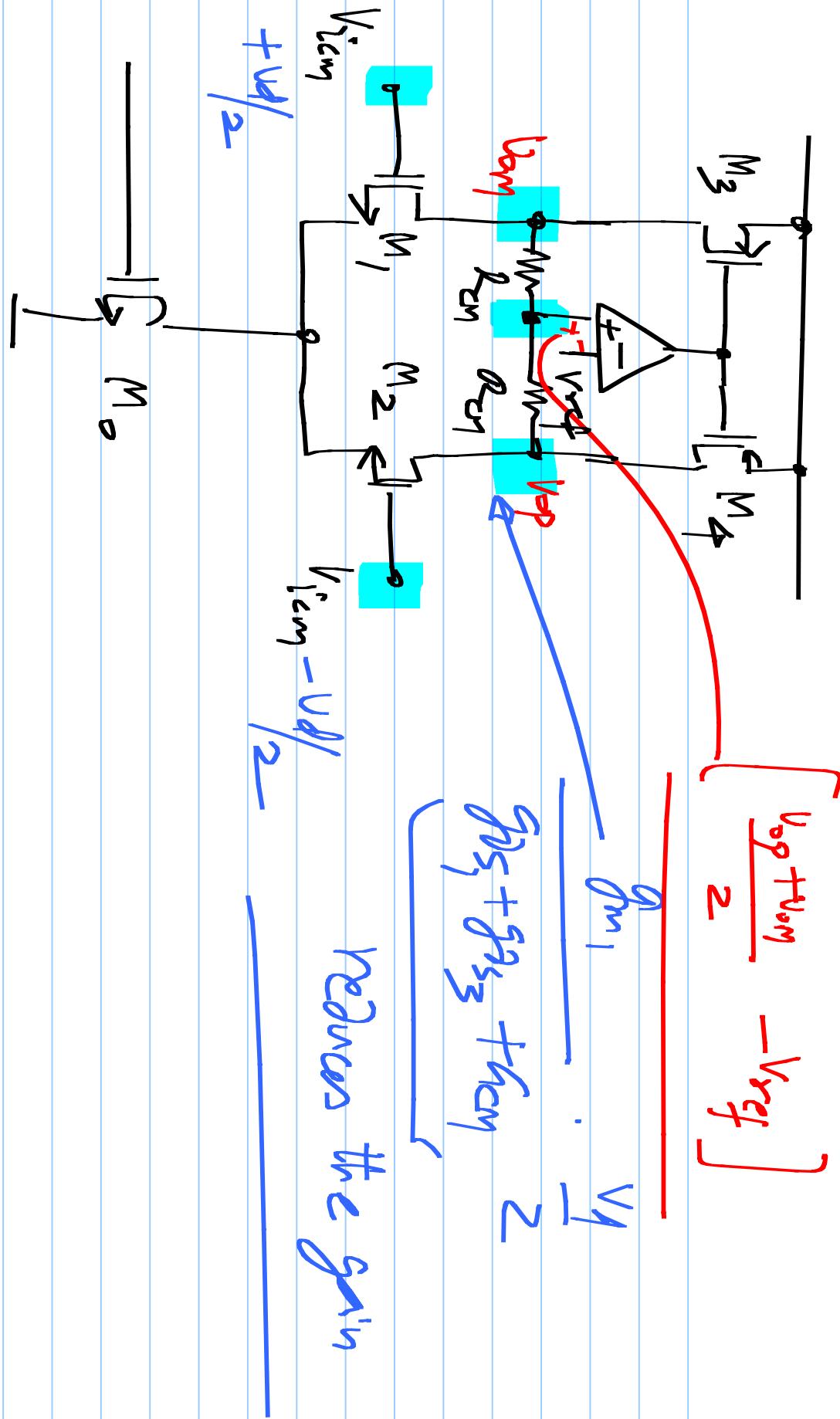
CM detectors: $\left\{ V_{op}, V_{cm} \right\} \rightarrow \alpha \left(\frac{V_{op} + V_{cm}}{2} \right)$

Resistive common-mode detector

+ linear



— load in the diff. picture



Buffered resistive common-mode detector

