E151 Lecture 22 – Output Stages

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Disclaimer

These are notes for Prof. Spencer to give the lecture, they were not intended as a reference for students. Students asked for them anyway, so I'm putting them up as a courtesy. Remember that they are not intended as a substitute for attending lecture.







Power Delivered to Load by EF
• Assuming sinusoidal signal for power analysis
• Transistor power is lower b/c it sees Vce*IL
$$\rightarrow$$
 Pt=Vcc*IB/4 on avg.
 $P_{L} = (V_{cc} - 2V_{cE}) ccs(\omega t) \circ I_{B} cos(\omega t) = {}_{L}I_{B} (V_{cc} - 2V_{CE}) ccs^{2}(\omega t)$





