JEE2330 – Spring 2025 Lab #7 Design Page

Initial Design	Final Design	Design Rqmts	
Transistor Character	ristics:		
$ \beta_{DC} = $		175 ± 25 175 ± 25 $> 25 \text{ k}\Omega$	
Circuit Components:			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
Operating Point Cha	racteristics:		
$\begin{aligned} V_{CEQ} &= \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$			
Voltage Amplifier Ch	naracteristics (No L	oad): $R_L = \infty$	Measured
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\geq 1 \text{ k}\Omega$ $\leq 2 \text{ k}\Omega$ 200 ± 40 $\geq 10 \text{ V}$ $\leq 400 \text{ Hz}$	
Voltage Amplifier Ch	naracteristics (R _L =	$2R_C$, $C_2 = C_1$, Final	Design Q Point):
$a_v = $ $v_{opp} = $			
Initial Design Approv	val:		