

Indian Institute of Technology, Delhi
EEL 204: Analog Electronic Circuits
Tutorial 8, March 29, 2011

For all the BJTs, assume all devices have β of 100, r_o is 100 k Ω . If biasing conditions cannot be deduced, assume r_π of 10 k Ω for the device.

Further, assume all BJTs have C_{be} of 100 fF and C_{bc} of 50 fF. In the four stage amplifier circuit, assume all the capacitors are of value 1 μ F.

Using open-circuit and short-circuit time constants, compute the frequency range in which the circuit exhibits best performance. Suggest how you will increase this frequency range.

