

11.3 Single-Stage Transistor Amplifier Design

Reading Assignment: pp. 548-557

We now know how to design an amplifier with maximum transducer gain. Let's look closer at the resulting device.

HO: MAXIMUM GAIN AMPLIFIERS

Q: *What happens if we don't like the resulting transducer gain? How can we identify a more suitable gain element?*

A:HO: THE IDEAL GAIN ELEMENT

Q: *Since we are using lossless matching networks, won't our resulting device be relatively narrow band? How can we increase the bandwidth of our design?*

A: HO: DESIGN FOR SPECIFIED GAIN