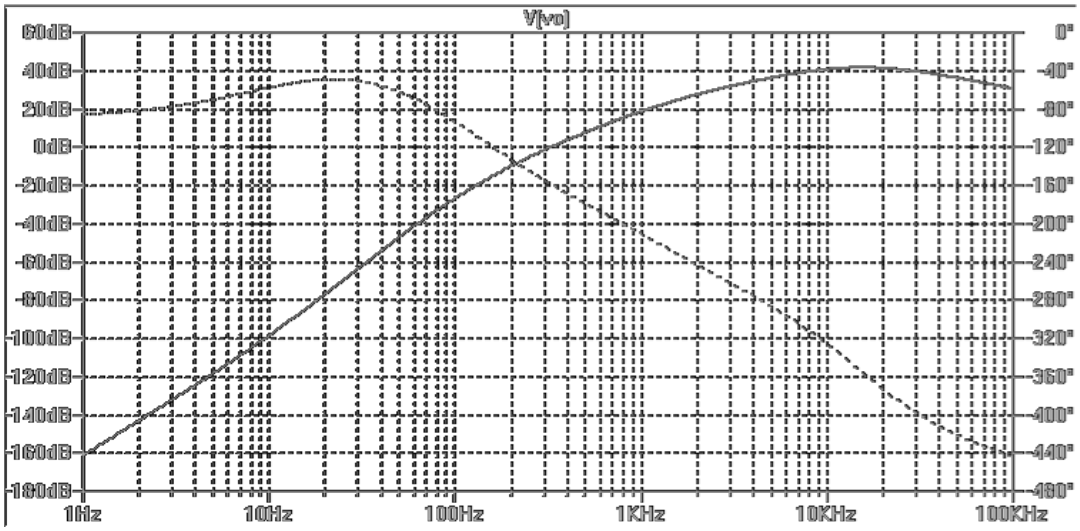
Example 11: Another Bode plot:



9

Vo/Vin (dB)

Phase Shift (degrees)

Figure 2: Frequency Sweep of Common Emitter Amplifier Circuit Theoretical (log scale for amplitude, frequency, and phase angle)

Aside from missing axis labeling (which the words shown between graph and title were supposed to substitute for), this is a case where the image quality of the graph is just not good. Perhaps it could have been scaled at larger size before doing a screen capture? Post-processed somehow? It's hard to say. In other respects, this would otherwise be satisfactory. The grid lines are there, and the numbers are small but would be readable except for the quality problem. The author did a good job of configuring the source application window and graph prior to doing a screen shot.

Example 12: Bode plot for a very wide frequency range:

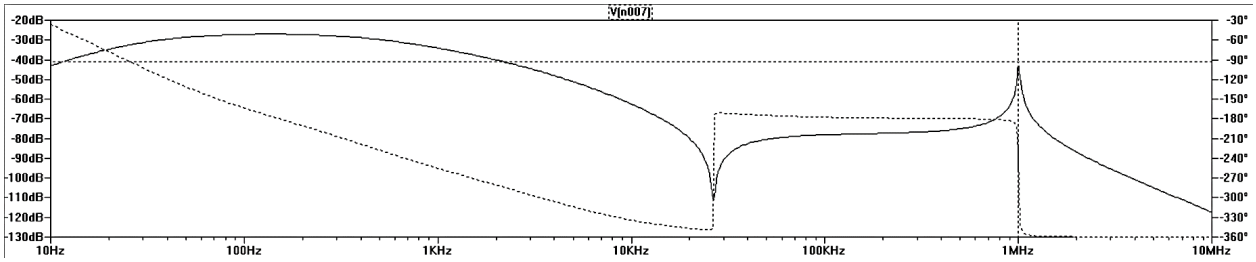


Figure 9: Frequency Response for the second Radio Design

This figure suffers from many of the same issues noted earlier, including a lack of grid lines, lettering way too small, no axis labels, and the node numbering artifact at the top. It is an interesting graph, with dramatic features at two different resonant frequencies. On the left at (unreadable), there is a notch where the signal is nulled out, and at right a resonant positive peak. At each of these resonant features there is a dramatic shift of 180 degrees each in phase. Wouldn't you like to know the frequency where these things happen? Good luck reading it from the graph (especially with no grid lines). The writer should annotate the figure to give you this information, and perhaps also give the size of the spikes in dB. The behavior of the circuit at relatively low frequencies (say, below 1KHz) isn't particularly interesting or relevant, and could have been omitted in the report (perhaps with just a remark). That would have made it easier to give higher resolution to the frequencies of interest. The authors showed cursors positioned at the peak of the passband resonance, but the figure does not have an annotation to give the particulars; it was probably put in the text, but on the figure as well would have been helpful. Without the annotation, why include the cursor markers? They are a distraction and may be confused with attributes of the phase response.