

EE 301 (MWF 2:30-3:20 Section)
Spring 2013
Problem Set 7
Due March 22, 2013

“O&W” is Oppenheim and Willsky, Edition 2. The next topic is Section 3.6 on discrete-time Fourier Series, followed by Sections 5.0 – 5.5, 5.8 on the discrete-time Fourier Transform.

1. Single-sideband modulation: O&W 8.29.
2. A pulse-amplitude modulation system: O&W 8.30.
3. Amplitude modulation by squaring: O&W 8.34.
4. Sinusoidal modulation coupled with pulse-train demodulation: O&W 8.35.
5. Superheterodyne receiver: O&W 8.36.

EE 301 (MWF 2:30-3:20 Section)
Spring 2013
Problem Set 7
Due March 22, 2013

“O&W” is Oppenheim and Willsky, Edition 2. The next topic is Section 3.6 on discrete-time Fourier Series, followed by Sections 5.0 – 5.5, 5.8 on the discrete-time Fourier Transform.

1. Single-sideband modulation: O&W 8.29.
2. A pulse-amplitude modulation system: O&W 8.30.
3. Amplitude modulation by squaring: O&W 8.34.
4. Sinusoidal modulation coupled with pulse-train demodulation: O&W 8.35.
5. Superheterodyne receiver: O&W 8.36.