Ch. 5 Homework

17. Noise can cause a phase shift and can get rid of high frequency harmonics.

19. The main advantage of FM is noise immunity.

20. The capture effect and transmitter efficiency are two more advantages of FM

21. Noise on FM is a phase shift.

22. AM uses linear amplifiers which are not needed in FM.

23. The main disadvantage of FM is excessive spectrum use. It is overcome be using reducing the deviation ratio and using VHF, UHF, and microwave frequencies.

26. The capture effect is when interfering signals on the same frequency are rejected. It is caused by a difference in signal amplitude.

33. FM radio, cellular telephone, TV sound, and Bluetooth are some applications for FM