

Exercise 1:

Figure 1 shows a telecommunication receiver. Based on the information given, compute the following:

- (i) Input signal to noise ratio, SNR_i in dB
- (ii) Output signal to noise ratio, SNR_o in dB
- (iii) The receiver's noise figures in dB, F.
- (iv) Equivalent noise temperature, T_e

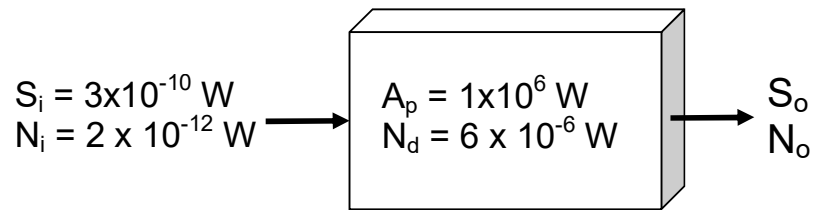


Figure 1

[10 Marks]

[CO1, PO2, C4]