Problem 7.11

(a) The transmission bandwidth of the BASK signal is effectively defined by

$$B_T = \frac{2}{T_b}$$

where T_b is the bit duration. With $T_b = 1 \,\mu\text{s}$, we therefore have

$$B_T = \frac{2}{10^{-6}} \text{ Hz}$$
$$= 2 \text{ MHz}$$

(b)

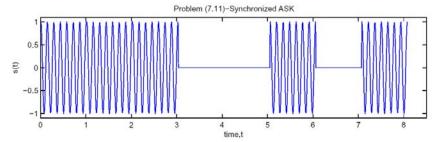


Figure 1

In the waveform plotted in Fig. 1, time t is measured in microseconds.