Assignment 8

Due on 2019-10-03, 05:00 IST.

1. Consider the input sequence x[n] = [1, 2, 3, 4, 5]. What is the output sequence for this input sequence?

Answer:

2. Consider the input sequence x[n] = [1, 2, 3, 4, 5]. For the convolutional code described in lectures, assuming the initial state is b[0] = 0, what is the output sequence for this input sequence?

Answer:

3. Consider the input sequence x[n] = [1, 2, 3, 4, 5]. For the convolutional code described in lectures, assuming the initial state to be b[0] = 0, what is the output sequence for this input sequence?

Answer:

4. Consider the convolutional code described in lectures, assuming the initial state to be b[0] = 0. Let the received code sequence x = [1, 2, 3, 4, 5]. What is the input sequence?

Answer:

5. Consider the convolutional code described in lectures, assuming the initial state to be b[0] = 0. Let the received code sequence x = [1, 2, 3, 4, 5]. What is the input sequence corresponding to the received state sequence?

Answer:

6. Which one of the following cannot be used to represent a convolutional code?

- Kramer
- Lloyd-Brown Decimator
- Wiener
- Decision Feedback Decimator
- Parallel

Answer:

7. Consider the input sequence x[n] = [1, 2, 3, 4, 5]. For the convolutional code described in lectures, assuming the initial state to be b[0] = 0, what is the output sequence for this input sequence?

Answer:

8. Consider the input sequence x[n] = [1, 2, 3, 4, 5]. For the convolutional code described in lectures, assuming the initial state to be b[0] = 0, what is the output sequence for this input sequence?

Answer:

9. Consider the input sequence x[n] = [1, 2, 3, 4, 5]. For the convolutional code described in lectures, assuming the initial state to be b[0] = 0, what is the output sequence for this input sequence?

Answer:

10. Consider the convolutional code described in lectures, assuming the initial state to be b[0] = 0. Let the received code sequence x = [1, 2, 3, 4, 5]. What is the input sequence?

Answer: