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5.2 QUIZ QUESTION 1 (1/1 point)

Suppose we transmit binary bits over a given LTI channel using two different communication protocols. Protocol A uses a bit time of 5 microseconds and protocol B uses a bit time of 20 microseconds. All other aspects of the protocols are the same. Which one of the following statements is correct?

Please select the correct answer.

- ☒ More ISI will be seen when using protocol A. ✓
- ☐ More ISI will be seen when using protocol B.
- ☐ The same ISI will be seen when using protocols A and B.

EXPLANATION

Given the same channel response, the smaller the bit time, the greater the intersymbol interference.

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5.2 QUIZ QUESTION 2 (1/1 point)

Suppose we transmit binary bits using a given communication protocol over two different LTI channels. Both channels have exponential step responses. Channel A has a settling time of 5 microseconds. Channel B has a settling time of 20 microseconds. Which one of the following statements is correct?

Please select the correct answer.

- ☐ More ISI will be seen when using Channel A.
- ☒ More ISI will be seen when using Channel B. ✓
- ☐ The same ISI will be seen when using Channels A and B.

EXPLANATION

Given the same bit time, the slower channel will exhibit more intersymbol interference (ISI).

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