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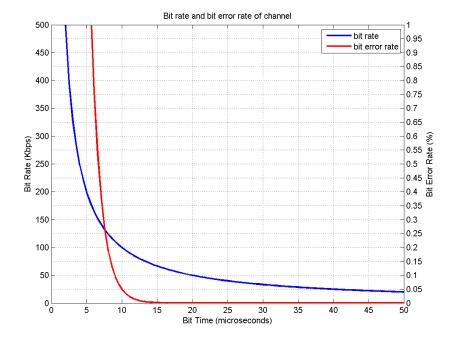
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6.1 QUIZ QUESTION 1 (1/1 point)

The relationships between bit time and the bit rate/bit error rate for a hypothetical communication channel are shown in the graph below.

If the maximum bit error rate we can tolerate is 0.05%, estimate the maximum bit rate in Kbps that we can use for transmission.

Please key in the numerical value of your answer in the box provided below.

100

100

Answer: 100

EXPLANATION

10/10/2014 08:59 PM

The lowest bit time we can use and still obtain a BER less than or equal to 0.05% is 10 microseconds, corresponding to a bit rate of 100Kbps.

| Final Check | Save | Hide Answer | *You have used 2 of 3 submissions*

6.1 QUIZ QUESTION 2 (1/1 point)

What is the function of an equalizer in the receiver?

Please select the correct answer.

- ○ To synchronize the transmitter and the receiver.
- ○ To estimate the threshold for detecting 0 or 1 bits.
- ○ To model the effects of the channel.
- ● To compensate for the effects of the channel. ✔

EXPLANATION

The equalizer tries to "reverse" the effects of the channel, by estimating the channel input from the channel output. Although this requires a model of the channel, modelling is not the primary purpose of the equalizer.

| Final Check | Save | Hide Answer | *You have used 1 of 2 submissions*

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