## 程序們写代做Vels编程辅导

## CDMA with Noise

In the class, we have much more complicated scenarion and ideal system. However, in reality, we have much more noise.

Consider the scenari +1). Suppose the se channel, noise is add +1+ $n_6$ +1+ $n_7$ +1+ $n_8$ ) zero mean and  $\sigma^2$  va distribution in a prei



ne receiver. The chipping sequence is (-1 -1 -1 +1 -1 +1 +1 the signal sent will be (-1 -1 -1 +1 -1 +1 +1 +1). In the the received signal will be  $(-1+n_1$  -1+ $n_2$  -1+ $n_3$  +1+ $n_4$  -1+ $n_5$  se terms. They are independently normally distributed with  $\sigma^2 = 1$ . Formally,  $n_i \sim N(0, 1)$ . You should know the normal

After the computing the inner product at the receiver, what "value" does the receiver derive? If the value is smaller than 0, it is decoded as -1, otherwise, it is decoded as 1. Use the provided table to find the probability that it is variety decoded as 1.

The tail probability (Q function) of a standard normal distribution is given in the attached q function.pdf.

## Assignment Project Exam Help

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