X

Unit 12 - Week 2 Assignments

Register for Certification exam

Course outline

How to access the portal

Matlab access and Learning Modules

Week 0 : Introduction to Error Correction Codes

Week 0 : Linear Binary Block Codes

Week 0 : Assignment

Join the 5G Revolution in India

Week 1: LDPC Codes for 5G

Week 1: 5G Standard

Week 1: Assignments

Week 2: Building Blocks for

Matlab Assignment 2

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-02-25, 23:59 IST.

Write MATLAB code for solving the following problems. Run the code with the required input and find answers to the questions below.

Consider a coded-BPSK transmission over an AWGN channel using a 5G NR-LDPC code with the 46 x 68 base matrix given in the text file $NR\_1\_1\_384.txt$(click here) and expansion factor 384. Let the received symbol vector be as given in the text file $received\_vector.txt$(click Here). Let $\hat{m}_1$ be the decoded message bit vector using the minsum SISO iterative message passing decoder (without layering) and $\hat{m}_2$ be the decoded message bit vector using the layered minsum SISO iterative message passing decoder (with each block row in the base matrix considered as a layer). The number of positions at which $\hat{m}_1$ and $\hat{m}_2$ differ

1) After 4 iterations of each of the respective decoders is _____

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 633,673

5 points

2) After 8 iterations of each of the respective decoders is _____

No, the answer is incorrect.
Score: 0

ce De

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) -1,1

5 points

Previous Page End