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MPTEIL

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Courses » Principles of Digital Communications

Announcements Course Ask a Question Progress Mentor FAQ

Unit 3 - Week 2

Course outline

How to access the portal

Week 1

Week 2

- Discrete
 Memory-less
 Channels:
 Mutual
 Information
- Channel
 Capacity-I
- Channel
 Capacity-II
- Channel
 Coding
 Theorem
- Lecture 11 : Differential Entropy-I
- Differential
 Entropy-II
- Quiz : Assignment 2
- Weekly Feedback

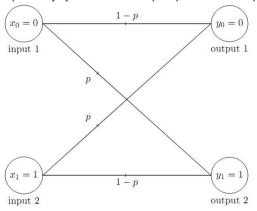
Assignment 2

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-08-15, 23:59 IST.

1) A binary symmetric channel (BSC) with crossover probability p is shown in the figure below. **1** point



Two BSCs with the same crossover probability are cascaded such that the output of channel-1 is fed as input to channel-2. The overall capacity of the equivalent channel in terms of the entropy function H(p) is



$$2H(p(1-p))$$



$$H(2p(1-p))$$



$$1-2H(p(1-p))\\$$



$$1 - H(2p(1-p))$$

No, the answer is incorrect.

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