

You recently left the test 'Test 1 (2018-19)' without submitting it. Return to the test and click Save and Submit or contact your instructor for assistance. The timer will continue to run.

Take Test: Test 2 (2018-19)

Test Information

Description

Instructions


Timed Test This test has a time limit of 1 hour. This test will save and be submitted automatically when the time expires.

Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows 3 attempts. This is attempt number 1.

Force Completion This Test can be saved and resumed at any point until time has expired. The timer will continue to run if you leave the test.

This test does not allow backtracking. Changes to the answer after submission are prohibited.

 Moving to the next question prevents changes to this answer.

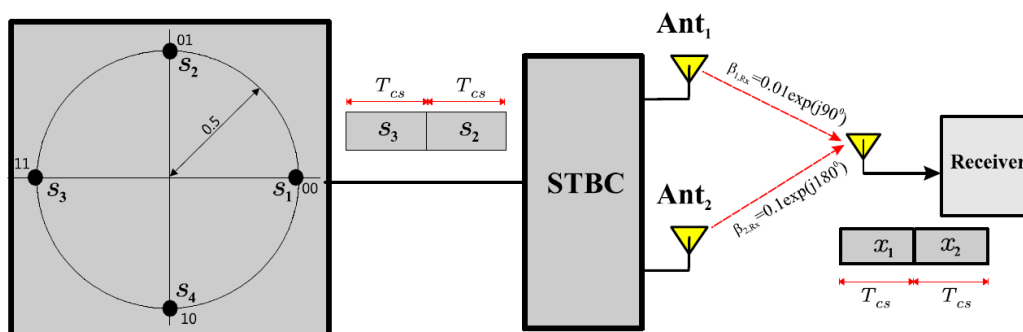
Question 1 of 8 >

Question 1

12 points

Save Answer

Consider the QPSK MISO system of 2 Tx antennas operating in a frequency flat wireless channel as shown the following figure:




If the QPSK symbols $[s_3, s_2]$ are transmitted using the above "Space-Time Block Coder" (STBC) then the receiver's input $[x_1, x_2]$, ignoring the noise, is

- (a) $[0.045j, -0.055]$;
- (b) $[0.045, -0.055j]$;
- (c) $[-0.055, 0.045j]$;
- (d) $[-0.055j, 0.045]$;
- (e) none of the above.

☐ a

☐ b

- ☐ c
- ☐ d
- ☐ e

 Moving to the next question prevents changes to this answer.

Question **1** of **8** 