


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 2 of 8 

Question 2

12 points

Save Answer

Consider a uniform linear array of N antennas with half-wavelength spacing.

The carrier frequency is 2.4 GHz and the manifold vector for a signal with Direction-of-Arrival ($\theta = 30^\circ, \phi = 0^\circ$) is

$$[-0.1125 - 0.9936i, 0.6661 - 0.7458i, 1.0000 + 0.0000i, 0.6661 + 0.7458i, -0.1125 + 0.9936i]^T$$

The array aperture is

- 25 cm;
- 31.25 cm;
- 50 cm;
- 62.5 cm;
- none of the above

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☐ a

- ☐ b
- ☐ c
- ☐ d
- ☐ e

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Question 2 of 8 