

ECEn 563
Numerical Methods

Homework #21
Due Apr. 6, 2026 [Due at 3pm]

1. 9.4 [Stealth Contest]

The minimum scattering width over the given angular range should be 5-10 cm or smaller.

The scatterer geometry should include a closed region in which a 1 wavelength diameter circle will fit.

During optimization, you may run your forward code with a low mesh density, but you must check your final solution with a high mesh density forward solution (20-30 or more points per wavelength).

A valid solution submitted before class on the due date with less than 5 cm scattering width over the specified angular range receives four final grade percentage points of extra credit.

There will be a prize for the best geometry.