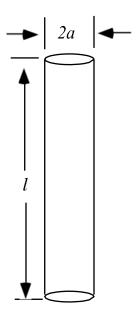
ECE 546 HOMEWORK No 2 - Due Wednesday, February 14, 2024



1. Write a program to calculate the charge distribution on a straight thin wire of length l and radius a (<< l), held at a potential 1V as shown above using the method of moments. Show a plot of the charge distribution for the case where l = 1 m and a = 1 mm.

Refer to: Elements of Engineering Electromagnetics, N. N. Rao, Prentice Hall,

- a. Second Edition, 1987, pp. 229-233
- b. Fourth Edition, 1994, pp. 247-251
- c. Sixth Edition, 2004, pp. 739-742