

EEL 3470: ELECTROMAGNETIC FIELDS

Homework # 1

Solve the following problems (problems 1 to 5 are in your textbook)

1. Problem 2.9 (a and b)
2. Problem 2.10 (a and b)
3. Problem 2.11
4. Problem 2.12 (a and b)
5. Problem 2.13 (a and b)
6. Given the field $\mathbf{D} = (x^2+y^2)^{-1}(x \mathbf{a}_x + y \mathbf{a}_y)$, find its equivalent field in the Cylindrical coordinate system.