

Read Chapter 7:

Problem 1: 6.2

Problem 2: 6.15

Problem 3: 6.16

Problem 4: 6.20

Problem 5: 6.24 , The correct sign on the current density should be negative i.e. .

$$M_s = -2\hat{n} \times E_a$$

Here the subscript a refers to aperture field (same as E_z)

Problem 6: 6.27 (keep in mind the incorrect sign of M_s)