

Electromagnetic Theory II

Problem Set 13

Due: 21 April 2021

48. J, Problem 10.16. To be clear, in part a) the integral referred to is the integral over angles of the differential cross section, i.e. you are calculating the contribution of shadow scattering to the total cross section. The latter is obtained in part b) via the optical theorem, eq. (10.139). Discuss the relation between the results of parts a) and b).

49. J, Problem 13.9.

50. J, Problem 14.4.