

EECS598-14

Title Green's Functions in Electromagnetics with Applications “

Short-title: Green's functions in EM

Prerequisite: EECS 530 or equivalent

Winter 2019

Tuesday and Thursday 12-1:30 pm

Green's functions for problems in electromagnetics. Applications are in microwave remote sensing, signal integrity, EMC, metamaterials, photonic crystals, near field radiative transfer and Casimir force. Topics include: Dyadic Green's functions, cylinders, spheres, layered media, multiple scattering, Broadband Green's functions in waveguides and periodic structures, fluctuation dissipation theorem

Texts:

1. Chen-To Tai, Dyadic Green's functions in Electromagnetic Theory, IEEE Press, 1994
2. Course Notes

Instructor: Leung Tsang, [leutsang@umich.edu](mailto:leutsang@umich.edu)