

Homework #5

1. Using expressions for σ_{vv}^0 , and σ_{hh}^0 on pages 26 and 27 of small perturbation, derive the parameters of the pdf of phase difference between S_{vv} and S_{hh} .
2. Plot σ_{vv}^0 and σ_{hh}^0 in backscatter direction as function of incidence angle for a rough surface with $ks = 0.3$, $kl = 2$ and Gaussian correlation function. Use $\varepsilon = 30 + i40$.