

Electrodynamics I

Chapter 4 Review Problem

Jaclyn Schmitt, Daniel Douglas

April 23, 2017

Consider a spherical shell with radius R which has potential $V = V(\theta, \phi)$. Find the potential everywhere.

1.

Find the potential everywhere when $V = V_0 \sin^2 \theta$

2.

Find the potential everywhere when $V = V_0 \sin^2 \theta \cos 2\phi$