

## **ECEn 662R - Electromagnetic Properties of Materials**

### Homework 8

All problems come from *Introduction to the Physics and Chemistry of Materials* by Robert J. Naumann unless otherwise specified.

1. Write out for yourself in words what the relationship between polarizability of molecules has to do with macroscopically measureable relative permittivity. Why does water have such a large permittivity?
2. Chapter 23 Problem 2.
3. Chapter 23 Problem 3.
4. Chapter 23 Problem 6.
5. Chapter 23 Problem 7.