Reading
Chapter 5.1 – 5.7, pp. 174–196. Dielectric materials
Chapter 8.5 – 8.6, pp. 356–363. Permeable materials

Problems
Create a professional looking summary of the frequency-domain form of Maxwell’s equations as well as the constitutive relations. It should be on a single side of one page, but can be larger than 8.5”\times11” if you wish to have more room. Include both the integral and differential forms of these equations. For each of these 10 equations, provide the following:

1. Name of the equation (i.e. Gauss’ Law, Faraday’s Law, etc.)
2. The equation itself with proper notation
3. A diagram or picture that illustrates the meaning of the equation. Construct the diagram yourself, no copy/pasting from the internet, digital documents, or the course website.
4. Optional – Any other related equations, pictures, information, or notes that you think would be helpful in understanding and remembering Maxwell’s equations.

When complete, your summary should have at least **10 equations** and **10 diagrams** as quantified below:

Maxwell’s Equations in Integral Form 4 Eqs. 4 pics
Maxwell’s Equations in Differential Form 4 Eqs. 4 pics
Constitutive Relations 2 Eqs. 2 pics
TOTAL NUMBER OF EQUATIONS + PICS 10 Eqs. 10 pics

Have fun and be creative with this assignment!