

ECE616 Homework #5
Out: Tuesday, November 1, 2011
Due: Tuesday, November 15, 2011

Topics: Dispersion; ultrafast nonlinear optics

Text: Ultrafast Optics

Chapter 4, Sections 4.2-4.4, 4.6-4.7; Chapter 6, Sections 6.3-6.4

- 1) Text 4.6 [Note: although you may consider a Brewster angle prism as a special (simpler) case, I would also like you to derive the more general result that does not require the Brewster angle assumption. However, you should assume the prism is used at minimum deviation.]
- 2) Text 4.8
- 3) Text 4.11
- 4) Text 6.3
- 5) Text 6.4
- 6) Text 6.5