

3.46 PHOTONIC MATERIALS AND DEVICES

Quiz 2—February 21, 2006

-	Al	Si	P	S
Zn	Ga	Ge	As	Se

Answer the questions below and give a brief explanation to support each answer.

1. List the following compounds in order of increasing bandgap: AlP and GaAs.
2. List the following compounds in order of increasing bandgap: GaAs, ZnSe.
3. List the following materials in order of increasing dielectric constant: Si, Ge.
4. Which binary compound mentioned in Q1 and Q2 above should exhibit the highest electron mobility?

Name: _____