

ENEE 691 Problem Set #3 3/5/02

Due 3-14-01

- (1) Keiser Problem 2-18
- (2) Keiser Problem 2-20
- (3) Keiser Problem 3-13
- (4) Keiser Problem 3-17
- (5) Keiser Problem 3-26
- (6) Keiser Problem 3-28
- (7) Keiser Problem 3-30
- (8) What fraction of the power travels outside the core in a cylindrical single-mode step-index guide with $2a = 4\mu\text{m}$, $\lambda_0 = 1.55\mu\text{m}$, $n_{core} = 1.5$, $\Delta = 0.006$?