

AP PHYSICS C

CHAPTER 1 ASSIGNMENT

Reading:

1.1 – 1.6



Problems:

1.1 1, 2, 6

1.3 9, 10, 12

1.4 17, 18, 28, 29

1.5 31, 33, 34

1.6 36, 37, 38

ANSWERS TO EVEN-NUMBERED PROBLEMS

P1.2 $2.15 \times 10^4 \text{ kg/m}^3$

P1.6 $\frac{4\pi\rho(r_2^3 - r_1^3)}{3}$

P1.10 (a) and (f); (b) and (d); (c) and (e)

P1.12 $\frac{\text{m}^3}{\text{kg} \cdot \text{s}^2}$

P1.18 9.19 nm/s

P1.28 (a) $3.39 \times 10^5 \text{ ft}^3$; (b) $2.54 \times 10^4 \text{ lb}$

P1.34 10^7 rev

P1.36 (a) 3; (b) 4; (c) 3; (d) 2

P1.38 (a) 796; (b) 1.1; (c) 17.66