

# 15-1

## HOUSTON PHYSICS

# Concept Review

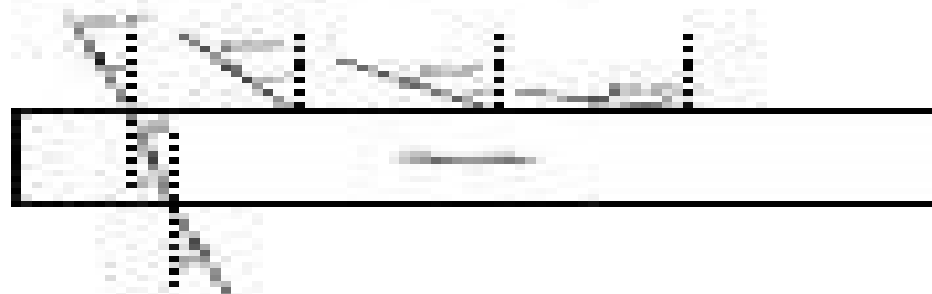
### Reflections

1. The speed of light is about  $3 \times 10^8$  m/s.

a. How fast does light travel in our atmosphere under good conditions?

b. If light is not reflected, where is it? What is the speed of light?

2. A light ray traveling down a horizontal glass surface reflects back into the medium it came from. Light travels through glass at about  $2 \times 10^8$  m/s. Light travels through air at about  $3 \times 10^8$  m/s. Light travels through water at about  $2.25 \times 10^8$  m/s. Light travels through diamond at about  $1.24 \times 10^8$  m/s. Light travels through vacuum at about  $3 \times 10^8$  m/s.



a. How fast does light travel through glass?

b. If light is not reflected, where is it? What is the speed of light?

c. How fast does light travel through water?

d. How fast does light travel through diamond?

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fundamentals and practice of linear programming the exercises demonstrate how to solve classical optimization problems with an emphasis on spatial analysis in supply chain management and transport logistics all exercises display the python programs and optimization libraries used to

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linear programming uses linear algebraic relationships to represent a firm's decisions given a business objective and resource constraints

steps in application

- 1 identify problem as solvable by linear programming
- 2 formulate a mathematical model of the unstructured problem
- 3 solve the model
- 4 implementation

introduction