

PHYSICS 160 READING

ASSIGNMENT FOR FEBRUARY 18

SECTIONS 4.3-4.4

4.3 - Newton's Second Law

- Newton's Second Law is the "equation" for this chapter.
- In words: a non-zero net force causes an object to accelerate.
- The acceleration is directly proportional to the magnitude of the net force.
- The acceleration is inversely proportional to the mass.
- When we have multiple forces, we have to do *vector addition* to find the net force.

4.4 - Mass and Weight

- Mass and Weight are not the same thing
- Mass - How much "stuff" is inside an object.
- Weight - The force on a mass due to gravity.