

PHYSICS 151 READING ASSIGNMENT

FOR JUNE 19

SECTIONS 4.8 AND 5.1

4.8 - Newton's Third Law

- The third law can be quite tricky, the most important thing to remember is that action and reaction act of different objects, they do *NOT* cancel each other out.
- The section on propulsion is useful in learning how we get around every day.
- Pay special attention to the Integrated Example 4.11. It shows how we use the third law when drawing free-body diagrams.

5.1 - Equilibrium

- An object in static equilibrium has zero net force acting on it.
- Our main problem-solving goal in equilibrium problems is to solve for the magnitude and sometimes the direction of the individual forces acting on an object.
- Both the x - and y -components of the forces have to add to zero.