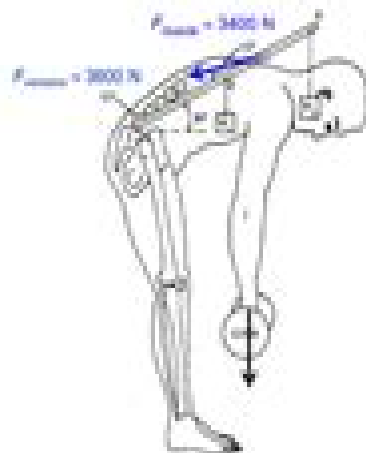


# Physical bases of biophysics

Lecture 3 14. 09. 2021.

Adám Orosz

Mechanics – Dynamics and Statics



1. Momentum
2. Interactions
3. Newton's 1. law
4. Force
5. Newton's 2. and 3. law
7. Deformations
8. Pressure
9. Laws of Dynamics
  - Law of universal gravitation
  - Gravity
  - Weight
  - Hooke's law
  - Friction

## Dynamics

Newton: **motion is natural state**

How can we characterize the mechanical **state of motion** of an object?



$v = 50 \text{ km/h} \approx 2,78 \text{ m/s}$

$m = 20\,000 \text{ kg}$

$v = 50 \text{ km/h} \approx 2,78 \text{ m/s}$

$m = 8 \text{ kg} \approx 777$

$v = 4320 \text{ km/h} = 1200 \text{ m/s}$

$m = 0,008 \text{ kg}$

**Momentum ( $p$ ):**  $p = m \cdot v$   $\left(\text{kg} \frac{\text{m}}{\text{s}}\right)$  **vector**

We usually use the letter  $p$  (or  $\vec{p}$ ) to denote it (from Latin *peto* "push, move").

Within a closed system the momentum is **conserved** (remains constant).

**Momentum characterizes translational movement** of a body.

## Dynamics

Dynamics raises a new question: What is the cause of the changes of **motion or shape**?



Answer: The **interaction** of the object with other objects!

## Newton's 1. Law/ Law of Inertia

**Momentum is conserved (momentum conservation)**

Every object remains at rest or moves in a straight line with uniform velocity until another object will compel it to change its motion.



The puck remains at rest until a force compels it to change its state of motion.

The state of motion of the puck changes because a force acts upon it.

The puck slides until an other force compels it to stop.

Reminder: The difference between the state of rest and linear motion with constant velocity depends on the inertia system.

Interactions can be of different strengths. We need a quantity that describes the **strength of the interaction** → **"Force"**.

# Principles Of Mechanics And Dynamics

**Augustus Edward Hough Love**



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