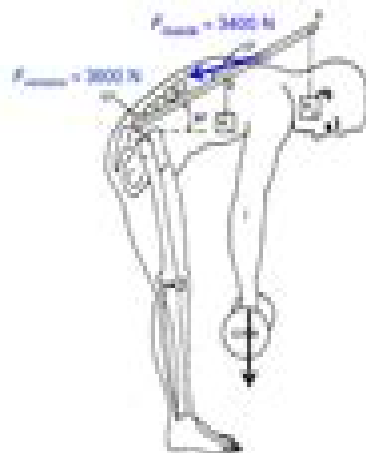


Physical bases of biophysics

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 stops 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

Lingsheng Yao



Principles Of Mechanics And Dynamics:

Unveiling the Power of Verbal Art: An Psychological Sojourn through **Principles Of Mechanics And Dynamics**

In a world inundated with displays and the cacophony of immediate connection, the profound power and psychological resonance of verbal art frequently diminish in to obscurity, eclipsed by the regular onslaught of sound and distractions. However, located within the musical pages of **Principles Of Mechanics And Dynamics**, a charming function of literary beauty that pulses with raw emotions, lies an wonderful journey waiting to be embarked upon. Published with a virtuoso wordsmith, this exciting opus guides visitors on a mental odyssey, gently exposing the latent possible and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse of this evocative examination, we can embark upon an introspective exploration of the book is central styles, dissect their fascinating writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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