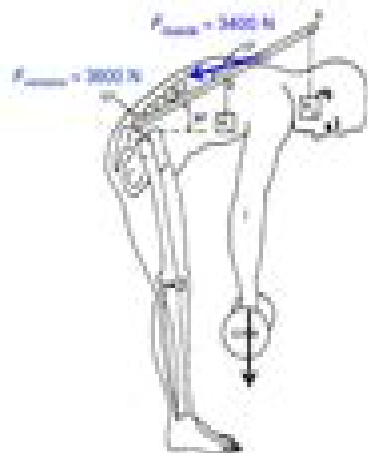


# Physical bases of biophysics

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

**Wolfgang Yourgrau, Stanley  
Mandelstam**



## **Principles Of Mechanics And Dynamics:**

Principles of Mechanics and Dynamics William Thomson Baron Kelvin, Peter Guthrie Tait, 1962      **Principles of Mechanics and Dynamics** William Thomson Baron Kelvin, 1912      **Principles of Mechanics and Dynamics** William Thomson Baron Kelvin, Peter Guthrie Tait, 1962      **Principles of Mechanics and Dynamics** Peter Guthrie Tait, 2003

**Principles of Mechanics and Biomechanics** Frank Bell, 1998 This book presents the essential core of these subjects with an imaginative approach and within the context of clinical practice It covers the principles of statics and dynamics principles of machines structure and materials and fluid mechanics without requiring prior knowledge of high level mathematics      **Principles of mechanics and dynamics : in two parts. 1** William Thomson Kelvin, Peter Guthrie Tait, 1962

*Principles of Dynamics* Rodney Hill, 2016-01-22 Principles of Dynamics presents classical dynamics primarily as an exemplar of scientific theory and method This book is divided into three major parts concerned with gravitational theory of planetary systems general principles of the foundations of mechanics and general motion of a rigid body Some of the specific topics covered are Keplerian Laws of Planetary Motion gravitational potential and potential energy and fields of axisymmetric bodies The principles of work and energy fictitious body forces and inertial mass are also looked into Other specific topics examined are kinematics dynamical basis and properties of the inertia tensor This text will be invaluable to those interested in studying the principles of dynamics      *Variational Principles in Dynamics and Quantum Theory* Wolfgang Yourgrau, Stanley Mandelstam, 1979-01-01 Historical theoretical survey with many insights much hard to find material Covers Hamilton's principle Hamilton Jacobi equation relationship to quantum theory and wave mechanics and more

**Theoretical Mechanics** Augustus Edward Hough Love, 1897      **Principles of Engineering Mechanics** Millard F. Beatty, 2010-06-01 Separation of the elements of classical mechanics into kinematics and dynamics is an uncommon tutorial approach but the author uses it to advantage in this two volume set Students gain a mastery of kinematics first a solid foundation for the later study of the free body formulation of the dynamics problem A key objective of these volumes which present a vector treatment of the principles of mechanics is to help the student gain confidence in transforming problems into appropriate mathematical language that may be manipulated to give useful physical conclusions or specific numerical results In the first volume the elements of vector calculus and the matrix algebra are reviewed in appendices Unusual mathematical topics such as singularity functions and some elements of tensor analysis are introduced within the text A logical and systematic building of well known kinematic concepts theorems and formulas illustrated by examples and problems is presented offering insights into both fundamentals and applications Problems amplify the material and pave the way for advanced study of topics in mechanical design analysis advanced kinematics of mechanisms and analytical dynamics mechanical vibrations and controls and continuum mechanics of solids and fluids Volume I of Principles of Engineering Mechanics provides the basis for a stimulating and rewarding one term course for advanced undergraduate and first year

graduate students specializing in mechanics engineering science engineering physics applied mathematics materials science and mechanical aerospace and civil engineering Professionals working in related fields of applied mathematics will find it a practical review and a quick reference for questions involving basic kinematics      Principles of Mechanics and Dynamics William Thomson, Peter Guthrie Tait, 1962      *Theoretical Mechanics, an Introductory Treatise on the Principles of Dynamics With Applications And* A E H Love, 2025-05-22 *Theoretical Mechanics an Introductory Treatise on the Principles of Dynamics With Applications* by A E H Love offers a comprehensive exploration of dynamics and its foundational principles Originally published in 1921 this treatise provides a detailed examination of theoretical mechanics making it a valuable resource for students and scholars of physics and engineering The book delves into the core concepts offering a rigorous mathematical treatment suitable for those with a strong background in mathematics and physics Love TM s work stands as a testament to the enduring importance of classical mechanics and continues to be relevant for understanding the fundamental laws governing motion and forces This edition ensures that Love TM s significant contribution remains accessible to a new generation of readers preserving the intellectual heritage of theoretical mechanics This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant      *Principles of Dynamics* Donald T. Greenwood, 1965

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