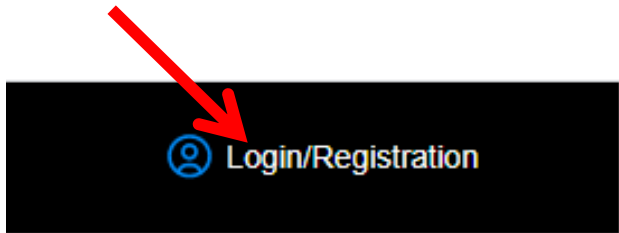


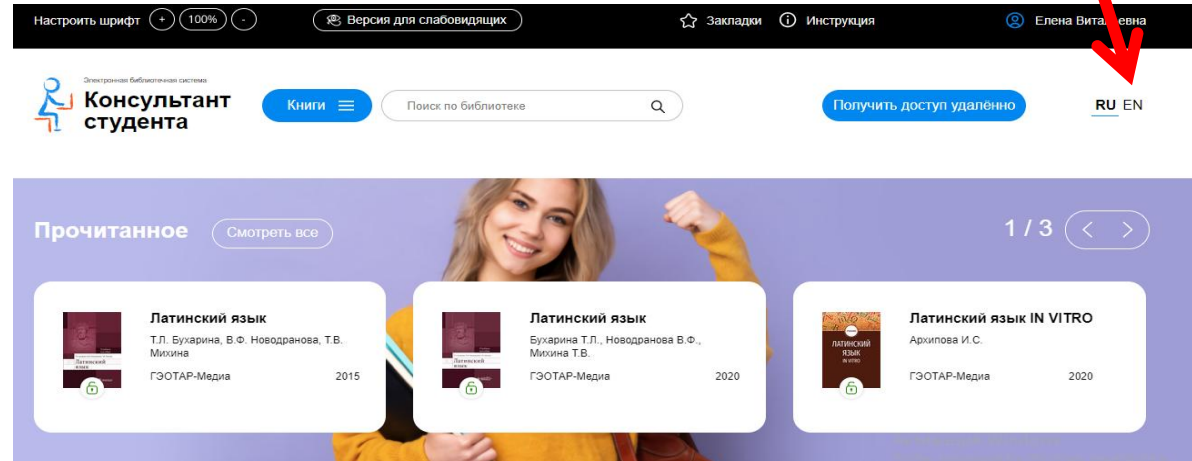
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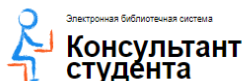
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Выражение, приписываемое Конфуцию, в настоящее время приобрело популярность в методике преподавания во всём мире. Причём при передаче его на разных языках усиливаются разные оттенки его практической направленности:

I hear and I forget,	Я слышу и забываю,
I see and I remember,	Я вижу и запоминаю,
I do and I understand.	Я делаю и понимаю.

Erkläre mir und ich vergesse,	Объясни мне, и я забуду,
Zeige mir und ich erinnere mich,	Покажи мне, и я запомню,
Lass mich tun und ich verstehe.	Дай мне сделать, и я пойму.

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Издательство ЮФУ

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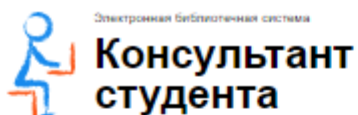
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Section 7. PHYSICS OF ATOMS AND MOLECULES. INTRODUCTION TO QUANTUM BIOPHYSICS

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CONCLUSION

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## Section 2. MECHANICS. ACOUSTICS

☆ Mechanics is a part of physics in which mechanical motion of material bodies is studied. Mechanical motion means change in the position of a body or its parts in space over time.

Mechanics based on Newton's laws is called classical mechanics. It deals with motion of macroscopic bodies at velocities much less than the velocity of light in free space.

The subject matter of this section can be of interest for the following reasons:

- understanding mechanics of motion of the whole body for purposes of sports and space medicine, mechanics of a human musculoskeletal system for purposes of anatomy and physiology;
- learning about mechanical properties of **biological** tissues and fluids;
- understanding the ear and vestibular apparatus operation as physical devices, the heart as a pump, etc.;
- explanation of the biophysical mechanism of action of ultrasound;
- understanding physical fundamentals of some laboratory techniques used in practice of biomedical research, e.g., centrifugation.

### Chapter 5 Mechanics of rotational motion

*Observing complex movements, such as the movement of a human body (walking, running, jumping, etc.), it seems difficult or even impossible to describe motion of all its points. However, analyzing such movements, it can be seen that they consist of simpler ones - translational and rotational movements.*

*The reader already knows the mechanics of translational motion, so the section begins with consideration of rotational motion. The simplest one is rotation of a solid body about the fixed axis. This case makes it possible to familiarize yourself with the*

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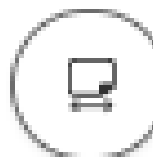
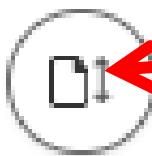
Medical and biological physics

## PREFACE

- ☆ According to the author, a **physics** course at a **medical** university, along with fundamentality, should have a specific **medical** address?, i.e., be profiled. Profiling is selection of material **and** illustration of possible applications of **physics** in medicine. Profiling not only motivates students to study **physics**, it is necessary due to the rather small volume of the course.

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### SECTION 2. MECHANICS. ACOUSTICS

- ☆ Mechanics is a part of physics in which mechanical motion of material bodies is studied. Mechanical motion means change in the position of a body or its parts in space over time.

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- understanding physical fundamentals of some laboratory techniques used in practice of biomedical research, e.g., confocalization.

Walking, running, jumping, etc.), it seems as if such movements, if seen from

motion begins with consideration of

of axis. This case makes it possible to

motion.

of BODY ABOUT A FIXED AXIS

no points does not change.

The size and shape of a perfectly rigid body do not change when it moves.

The concept of "perfectly rigid body" is a physical abstraction since any kind of a body is exposed to deformations. However, in many cases deformation can be neglected.

The simplest case of rotational motion of a perfectly rigid body is rotation relative to a fixed axis. This is a motion in which the points of the body move in circumferences, the centers of which lie on the straight line, called the axis of rotation.

It is known that in some cases it is not necessary to specify the movement of all its points; in translational motion, it is sufficient to specify the movement of any one point of the body.

For rotational motion about the axis, the points of the body move along different trajectories, but at the same time all the points and the body itself rotates through the same angle. To characterize the rotation, let us draw in a plane perpendicular to the axis, the radius vector  $r$  to some point (Fig. 5.1). Time dependence of angle  $\varphi$  of rotation of the radius vector relative to a certain selected direction  $Ox$  is the equation of rotational motion of a solid body around a fixed axis:

$$\varphi = \varphi(t), \quad (5.1)$$

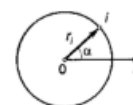


Fig. 5.1

The rotation rate of the body is characterized by angular velocity equal to the first derivative of the rotation angle of the radius vector by time:

$$\omega = d\varphi/dt, \quad (5.2)$$

Angular velocity is a vector that is directed along the axis of rotation and depends on the direction of rotation according to the right-hand screw rule (Fig. 5.2). An angular velocity vector, in contradistinction to velocity and force vectors, is a sliding vector. It does not have a specific point of application, and it can be located anywhere on the axis of rotation. Thus, assigning the vector  $\omega$  indicates the position of rotation axis, direction of rotation, and absolute value of angular velocity.

- ☆ The rate of angular velocity change is characterized by angular acceleration equal to the first derivative of angular velocity by time:

$$\varepsilon = d\omega/dt, \quad (5.3)$$

or in the vector form:

$$\vec{\varepsilon} = d\vec{\omega}/dt,$$

(5.4)

Good reading and good work!