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E.P. Sidorov

**BENARD VORTICES AND HYDROGEN IONS
BIO-HYDRODYNAMICS OF THE NATURE
AND HUMAN LIFE FUNDAMENTALS**

Монография

Москва
2021

УДК 544.6:532.5
ББК 22.253.3/24.57
S57

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ISBN 978-5-6045842-8-6

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S57 «Benard vortices and hydrogen ions bio-hydrodynamics of the nature and human life fundamentals»: Монография: – Москва, Изд. «Интернаука», 2021. – 110 с.

The monograph considers the concept of a dynamic discrete energy-mass structure in the form of Benard's vortices, which initiate the formation of the fundamental principle of the vital activity in nature, including humans, due to the elementary charges of gravity-electromagnetic fields, dissociation of water molecules, recuperation and recombination of hydrogen molecules and ions by the forces of resonance of energy-masses fluctuations and fluctuations of an external stochastic or technogenic magnetic field. The evidence-based scientific background for the dynamic processes identification in the human body and man-made devices is presented. For example: "Magneto-hydrodynamic effect of blood water flow" and the physical effects of implosive movement of water in pipeline systems. It is argued that the movement of the water flow of blood follows the laws of man-made devices. It is argued that hemostasis of a sick organism can be achieved by inducing the resonance of fluctuations of the pathogenicity initiator and fluctuations of introduced biological entities having the same degree of ionic bond or values of relative electronegativity on the Pauling scale.

ББК 22.253.3/24.57

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FOREWORD

In the ever-changing world of nature, there are no absolute laws and dogmas, there are only various interactions of energies determining the fate of all existence.
Viktor Schauberger

The development of science lies in the fact that theories are constantly changing, expanding, improving and refining. We observe the most powerful impulses in the development of the theory when it is possible to find these unexpected experimental facts contradicting the established views... Thus, the main driver of the development in physics, as well as in any other science, is the search for these contradictions.
P.L. Kapitsa

By the beginning of the XXI century, science has accumulated a lot of deep knowledge about the Universe of our planet and the structure of the human body. However, according to the leading scientists of the world, including Doctor of Physical and Mathematical Sciences A.A. Shadrin, the Modern Academic Representation (MAR) of the Universe, as well as the concept of man and the human body, based on the revealed unexplained natural phenomena and experimental effects, is expressed in theories that are detached from the nature of physical phenomena and, being abstract-mathematical, are not adequate to physical reality. Therefore they are erroneous and futile. This situation is also observed in the resulting theories of construction and human life. A.A. Shadrin [20] wrote, "Most of the observations in nature and experiments in physics (these words we can reliably refer to the science of man) in the formation of certain concepts in science are precisely associated with the effect, while the cause, as such, disappears or is lost from the field of objectivity by man due to some circumstances, for example, invisibility." The overwhelming majority of modern physical methods for studying matter, used by scientists to determine the structure and properties of biological objects are not able to fix and study the causal relationship of phenomena occurring at the speed of light or as weak quantum-chemical interactions without serious changes in the atomic structure of matter. Consequently, the experimental data do not quite adequately characterize the geometry of the complexes and the electron-photon structure of molecules. Therefore, only theoretical research methods, using the calculated basis of quantum physics, make it possible to form reliable information about the geometry and changes

in the electronic structure of biological systems and to see the cause-and-effect relationship of phenomena occurring in the human body, which corresponds to the laws of life of the Universe.

The Modern Academic Representation (MAR) about human physiology is “a body without arms, legs and head.” If we add the concepts of modern quantum physics to the MAR, in determining the causes of activity of human vital organs, namely: the processes of hydrogen ionization and the synthesis of water molecules, the theory of the wave function with hidden variables of the actual configuration of the de Broglie-Bohm particle system, the processes of orientation polarization and the magneto-hydrodynamic effect of reduction to the vortex motion of the blood water flow by the forces of Lorentz, as well as the law of conservation and maintenance of the average energy of the vital system and the inertial force of maintaining the equilibrium of the impulse in photon interactions, then the MAR will acquire an objective causal relationship of natural phenomena manifestations in the human body.

The rapid development of elementary particle physics in the direction of building our world, as well as the design of quantum computers, requires the transfer of this knowledge and research methods to improve human health. The time has come to start serious research base on the specialized research organizations, on a national scale, in the system of dualism of medical and physicist scientists.

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Подписано в печать 17.11.2021. Формат бумаги 60x84/16.

Бумага офсет №1. Гарнитура Times. Печать цифровая.

Усл. печ. л. 6,875. Тираж 550 экз.

Издательство «Интернаука»

125424, г. Москва, Волоколамское шоссе, д. 108, цокольный этаж,
помещение VIII, комн. 4, офис 33

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Отпечатано в полном соответствии с качеством предоставленного
оригинал-макета в типографии Allprint
630004, г. Новосибирск, Вокзальная магистраль, 3

16+