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Some mechanical analogy and the climate anomalies

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It is showed that researches of some technical tasks can be useful in some adjoined spheres. Combined boundary task of thermal conductivity in layer is observed as an example. It's showed that the result, obtained by means of researches of this boundary task, are correlated as analogue with some phenomena in the environment, strict explanations of which don't exist. For example, there is an explanation of well-known phenomenon in abroad and in our country "Indian summer" as steady anticyclone in hydrometeorological literature. But there is no any physico-mathematical research of this phenomenon. It's interested to try to find analogues for other phenomena. Analogues are found by observing of mixed boundary task for parabolic equation about expanding of warmth in the layer in suggestion of change of boundary conditions on one of the layer border. It has been established that it is convenient to describe a number of natural anomalous processes, which consist in localizing the energy within certain spatial regions, as a result of manifestation of a natural virus, as a vibrio virus in mechanics. The natural virus makes it possible to reveal the conditions of occurrence of anomalies and, thus, to search for various ways of decreasing fatal natural processes. Introduction of natural virus is a result of detecting new regularities in the natural processes, which are reasonably adequately describes by mixed boundary-value problems in a great variety of fields. It is convenient to represent these regularities by reproducing the concept of a natural virus, and to interpret the occurrence of anomalies as its manifestation at different levels up to an anomalous state of the natural processes under consideration. It can assert that the distribution of the natural-process energy is reasonably uniform in a region when the virus does not manifest itself. As the virus manifests itself, the process energy is localized in one or several zones of the region. At the limit, the localization results in anomalous behavior of the natural process in the indicated zone or outside of it depending on the natural-process type.

Biography

Vladimir A. Babeshko has completed his PhD in Mechanics from Russian Academy of Sciences in 1974. He has been a Chief of Scientific-Research Center for Forecasting and Preventing Geoecological and Technologenic Disasters Kuban State University and Southern Research Center, Russian Academy of Sciences. He has 20 patents, published 7 monographs and more than 450 papers in reputed journals such as Russian Academy of Sciences and many others.

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