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Climate, some natural anomalies and seismicity

The question of localization in some natural processes described by mixed boundary problems was explored. As a result of research in this problem, taking into account seasonal changes in temperature near the Earth's surface and without taking into account the well-known strong seasonal movements of the atmosphere, trade-wind and other circulations in the atmosphere, is studied along with the behavior of the temperature in the surface layer. As a result, some conformities were found which were not previously described, but which manifest themselves as abnormal phenomena since arise in enough favorable conditions. These are such things as the "bab'eleto" in Russia, "Aitweibersommer" in Germany, "Indian summer" in the United States, summer snowfall, foul weather in one area, while the equanimity is so close. The contact problem of acting of the two semi-infinite Kirchhoff plates on the elastic layer is considered. The vertical stresses acts on the plates and the problem is to study the contact stresses concentrations between the plates and the layer in this block structure. It was proved that the contact stresses concentrations in the end-walls of the plates became singular if the distance between plates is equal to zero. It can induce the destruction of the materials in engineering or appearance of the earthquake in seismology. The influences of the climate change on the seismicity are discussed.

Biography

Vladimir Babeshko has completed his HD (Doctor of Mechanics) in 1974 from Russian Academy of Sciences. For many years he is a Chief of Scientific-Research Center for Forecasting and Preventing Geo Ecological and Technologic Disasters Kuban State University and Southern Research Center, Russian Academy of Sciences. He has 20 patents, published 7 monographs and more than 500 papers in reputed journals such as Russian Academy of Sciences and many others. He is the author of the Theory of the Block Element Method, has discovered the "Starting Earthquake", and has gotten the mathematical explanations of some Weather and Climate Change.

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