Название: Approximation Models for the Hydrolitospheric Processes
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Аннотация: One of the main problems for the Caucasian Mineral Waters region is the preservation of the mineral springs, on the basis of which there are bottling plants and health resorts. To solve this problem, it is necessary to ensure technological and environmental safety in the operation of production wells. When designing control systems, it is necessary to take into account the peculiarities of the geological structure for each field. These objects are systems with distributed parameters. When designing the control system of production wells flow rates, the basic theoretical positions of analysis and synthesis for systems with distributed parameters were used. We consider the construction of an approximation model to describe the dynamic characteristics of the object in relation to the hydrolithosphere process. The approximation model is obtained by using numerical simulation methods. The proposed method also allows the use of experimental data obtained on a real object.
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