

Article

# Development of a Distributed Mathematical Model and Control System for Reducing Pollution Risk in Mineral Water Aquifer Systems

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**Abstract:** The article is devoted to the problem of the growing need of the mineral water fields' exploitation process automation. The implementation of control systems and mathematical modeling methods can significantly reduce the fields' structural integrity violations and pollution of aquifers' risks. This research is especially relevant for the fields with difficult conditions of mineral waters occurrence, since the insufficient accuracy of determining the fields' operating mode parameters can lead to a severe incident. The article describes a distributed mathematical model developed from the geo-filtration equation. Based on this model, a new method for assessing the mutual influence of the fields, the production of which is carried out from one aquifer, is presented. For a more detailed study of the operating mode parameters influence on the object a physical model of the reservoir was developed. The using of Arduino sensors and the developed software allows us to construct a 3D graph of the input action and its response at the different points of the object as temperature distribution. The simulation results make it possible to use the proposed model for the automatic control system synthesis.

**Keywords:** mineral water field; mathematical model; system analysis; modeling; control; sensors



**Citation:** Martirosyan, A.V.; Il'yushin, Y.V.; Afanaseva, O.V. Development of a Distributed Mathematical Model and Control System for Reducing Pollution Risk in Mineral Water Aquifer Systems. *Water* **2022**, *14*, 151. <https://doi.org/10.3390/w14020151>

Academic Editors: Maria Giovanna Tonda, Elena Butera, Andrea Zanini and Marco Di Orio

Received: 22 November 2021

Accepted: 4 January 2022

Published: 7 January 2022

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## 1. Introduction

Currently, the extraction of mineral resources is significant not only for the welfare of the Russian Federation [1], but also plays an important role in the world economy [2,3]. One of the main types of recoverable raw materials is raw materials with rheological properties. These types of raw materials include oil, water resources, etc. [4]. Most of the mineral water fields has difficult conditions for the occurrence of fluid in the reservoir. Extraction from that kind of fields is complicated by a huge number of factors affecting the state of the reservoir [5,6]. In the view of the greatest study, the fields of the Caucasian mineral waters (CMW) region where the large volumes of mineral waters with a unique chemical composition are extracted were chosen as a test object. The chemical compositions of the most important to save CMW region's mineral waters are shown in the Table 1. Under the influence of the constant intensive exploitation, the state of the hydrolithosphere of this region is deteriorating. In addition to the operation process, the general condition of the fields is influenced by such natural and man-made factors as: high wear and tear of the city sewage system, communal and engineering infrastructure, an extensive fleet of vehicles, chaotic buildings, etc. The combination of the presented factors slowly changes the conditions of occurrence of groundwater [7]. This leads to local emergencies, as a result of which their gradual pollution occurs. Hydromineral resources are an important component of a regional development, and some types of mineral waters have a unique chemical composition that has no analogues in the world [8].

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## **Table of Contents Mathematical Modeling For Water Pollution Control Processes**

1. Understanding the eBook Mathematical Modeling For Water Pollution Control Processes
  - The Rise of Digital Reading Mathematical Modeling For Water Pollution Control Processes
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Modeling For Water Pollution Control Processes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematical Modeling For Water Pollution Control Processes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Modeling For Water Pollution Control Processes
  - Personalized Recommendations
  - Mathematical Modeling For Water Pollution Control Processes User Reviews and Ratings
  - Mathematical Modeling For Water Pollution Control Processes and Bestseller Lists
5. Accessing Mathematical Modeling For Water Pollution Control Processes Free and Paid eBooks
  - Mathematical Modeling For Water Pollution Control Processes Public Domain eBooks
  - Mathematical Modeling For Water Pollution Control Processes eBook Subscription Services
  - Mathematical Modeling For Water Pollution Control Processes Budget-Friendly Options

6. Navigating Mathematical Modeling For Water Pollution Control Processes eBook Formats
  - ePUB, PDF, MOBI, and More
  - Mathematical Modeling For Water Pollution Control Processes Compatibility with Devices
  - Mathematical Modeling For Water Pollution Control Processes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematical Modeling For Water Pollution Control Processes
  - Highlighting and Note-Taking Mathematical Modeling For Water Pollution Control Processes
  - Interactive Elements Mathematical Modeling For Water Pollution Control Processes
8. Staying Engaged with Mathematical Modeling For Water Pollution Control Processes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematical Modeling For Water Pollution Control Processes
9. Balancing eBooks and Physical Books Mathematical Modeling For Water Pollution Control Processes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematical Modeling For Water Pollution Control Processes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mathematical Modeling For Water Pollution Control Processes
  - Setting Reading Goals Mathematical Modeling For Water Pollution Control Processes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematical Modeling For Water Pollution Control Processes
  - Fact-Checking eBook Content of Mathematical Modeling For Water Pollution Control Processes
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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