

Modeling and Automation of Water Purification Processes from Multicomponent Pollution

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Abstract— Mathematical models of the processes of cleaning liquids from multicomponent contamination by filtration, as well as diffusion-mass transfer perturbations and the development of numerical-asymptotic methods for solving the corresponding nonlinear regularly and singularly perturbed boundary value problems are shown. The construction of automation systems of corresponding treatment systems and complexes on the basis of solving model problems is presented.

Keywords— mathematical model, purification, filtration, impurities, magnetic water purification, biological water purification, water lighting.

I. INTRODUCTION

As a rule, when modeling fluid purification processes by filtering through porous [1] medium is being considered filters with uniform loading of a constant section in the mode of constant filtering speed. Besides filtering down the grain size with decreasing velocity along decreasing velocity – these are generally recognized methods of intensifying the work of filter facilities that are widely used in practice (separate attempts to consider uniformity of filter loading cannot be considered satisfactory because the extreme idealization of the relevant assumptions) [2]. Not installed structure of the coefficients appearing in mathematical models, as a function of the loading parameters, characteristics of the source fluid and its impurity particles, filter speeds, characteristics of the precipitate that is formed, etc.

The concentration of impurity particles at the inlet of the filter is almost always considered constant, although in real conditions, it usually changes. Impurities of filtered liquids are considered to be monodisperse and non-interacting, while they are almost always polydisperse and may interact under certain conditions. Account diffusions and mass transfer components don't take into, which, under certain conditions, may be significant. (For porous filter materials with a large pore conduction coefficient, in many cases, diffusion and mass transfer and reverse effects can be signification). There are no mathematical models that take into account the interaction of

impurity particles during filtration. There are no mechanisms for creating automated control systems based on existing mathematical models.

II. ANALYSIS OF PREVIOUS STUDIES

In most cases [3–4], the tasks in question contained one-component process characteristics, but, as practice shows, contamination is multicomponent and depends on many factors, leading to entirely new, complicated tasks.

III. STATEMENT OF THE PROBLEM

Since most sewage treatment plants operate on manual control, this results in reduced productivity, increased cost of services, and "human factor". Automation of water treatment plants will allow to reduce labor costs for maintenance in increase of reliability of work of plants, to improve technical and economic indicators at the expense of optimization and intensification of technological processes, to provide water of guaranteed quality. Automatic filtering [5] of the filters results in a reduction of 10-25% present of specific and total costs of chemical reagents in water for their own use. Introduction of automation of management of water treatment plants allow 2-3 times to increase the productivity of these installations without capital costs for technological equipment in construction, which is the main factor that determines the feasibility of introducing of systems of automation of water treatment plants.

IV. THE MAIN MATERIAL OF THE ARTICLE

Automated systems of magnetic (fig. 1-2), biological (fig. 3) water purification are developed in the work.

Mathematical Modeling For Water Pollution Control Processes

Hussin A.Rothana



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