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ABSTRACT

S.A. Semenov, K.Z. Gumargalieva, G.E. Zaikov. Process characteristics and peculiarities of damages of materials by microorganisms in the exploitation conditions.

The review gives some characteristics and methods of determination of microbiological damages of materials (adhesion, growing of microbe cells and changing of material properties under the action of microorganisms). These methods and characteristics give quantitative estimation of damages process.

Authors of paper gave new method of microbiological damages investigation. This investigation is including several microbiological, chemical, biochemical and mechanical methods. It was shown that this complex of methods are very effective in case of investigation of material samples damages.

E.J. Bulychev, L.V. Mironov, S.M. Sukhorukova. Chemical technological decisions of the problem of firm household waste products and their social, ecological and economic aspects.

The analysis of defects of the ways for burial of solid waste and technologies of incinerations, combustion of solid waste used in our country is represented. The concept of Universal Biokompleks is offered for the purpose of ecological and economic optimization of these ways.

E.A. Demcheva, M.V. Tsarikovskaya, E.I. Khabarova, V.B. Lukmanov. Marketing monitoring of biotechnological internet resources and internet market of ecology related biotechnological developments.

The development grade of biotechnological branch is varies significantly according to every different branch direction. One of such direction is the market of ecology related biotechnological developments, which was monitored using marketing research in 2002-2006.

A.L. Taran, E.V. Dolgalyov, A.J. Holin. Ecologyco-economically effective technologys of produsing of nitrogen containing mineral fertilizers developed in MITHT.

In work the most modern and demanded in the industry ways of produsing of technologically and ecologically safe nitrogen containing mineral fertilizers are presented. This manufacture of Calcium -ammonium nitrate (CAN), supergranulated carbamide for intrasoil entering and effective fertilizers mixturing, capsulated NK, NS, NPK fertilizers with adjustable allocation of target components, etc.

V.I. Zhuchkov, A.V. Anisimov, S.A. Reshetov, P.G. Rumjantsev, A.K. Frolkova. Study of the dependence of the pressure of vapors of dimethylsulfoxide and perfluorinebenzene on the temperature.

Are obtained the experimental dependences of the pressure of the saturated vapor on the temperature for the clean of dimethylsulfoxide and perfluorinebenzene in the range of temperatures, that corresponds to extractive rectification under the atmospheric pressure.

G.A. Nosov, G.A. Kesojan, D.A. Popov. Contact crystallization with using of cooled solution.

The new technique of contact crystallization with using of cooled solvent has been proposed and theoretically analyzed. This technique allows to exclude contamination of separated products by coolants and to simplify its instrumentation.

Serafimov, A. V. Frolkova. Konovalov's First Law Validity in Reactive Distillation Processes With Inert.

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A.K. Frolkova, L.A. Hahin. Entropic estimation of rectification binary mixes at various variants of process computation.

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A.K. Frolkova, L.A. Hahin, T.V. Chelyuskina, L.I. Chernyh. The temperature change along trajectories of process of equilibrium condensation of multicomponent mixtures.

The temperature change along trajectories of process of open equilibrium condensation is

investigated. The equation of temperature dependence along a trajectory of the open equilibrium condensation, similar to Schreinemaker's rule is received.

T.V. Chelyuskina, A.V. Frolkova, Ye.A. Sharonova. Konovalov's first law validity in binary two-phase systems.

Complete conditions for the validity of Konovalov's first law in binary ideal and not ideal two-phase systems are found.

N.A. Bragina, I.N. Fedulova, I.P. Ushakova, P.V. Dubovskij, V.V. Chupin: Synthesis of the glycerophospholipids with polymerizable groups for the stable nanoparticles formation.

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Synthesis of 1,2-di-(11,13-tetradecadienoyl)-sn-glycero-3-phosphocholine and 1,2-di-(2,4-hexadienoyl)-sn-glycero-3-phosphocholine, containing terminal polymerizable diene groups has been carried out. It is supposed that using of synthesized phospholipids mixtures followed by their polymerization will lead to formation of stable nanoparticles – bicelles, which will be capable to exist in a wide range of concentration of mixed components and resistant to organic solvents action.

N.N. Ivanova, I.Y. Loginova, T.S. Solov'eva. Some features of oxidative processes in fat-containing confectionary products.

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S.A. Kedik, E.I. Jartsev, I.E. Stanishevskaja, Fedorov S.V. Technology of reception of the dry cleared extract from leaves stevia.

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A.A. Mezentseva, N.A. Mironova, E.V. Burlyeva. Forecasting the maximum absorption of bacteriochlorophyll *a* derivatives subject to conformational flexibility of molecules.

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The relationship "structure – property" of the bacteriochlorophyll *a* derivatives has been investigated. The prognostic procedure of thermodynamic and spectral characteristics for group of these compounds has been offered.

Vu Hon Shon, N.Yu. Borisova, E.Yu. Afanasieva, T.P. Kolobova, E.Ya. Borisova. Synthesis and properties of (±)-trans-2-dialkylaminoethylaminocyclohexanols.

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This article is devoted method of synthesis and study of the properties of (±)-trans-2-dialkylaminoethylaminocyclohexanols. It was found that the studied compounds are not toxic and have expressed antiarrhythmic properties. It was found that the explored compounds are low-toxicity substances having pronounced antiarrhythmic properties.

L.A. Ivanova. The types of reference and definite descriptions.

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The article deals with the study of the types of reference and definite descriptions. The use of definite and indefinite reference is considered. The term «definite descriptions» is interpreted. The attributive and referential use of definite descriptions is discriminated.

E.L. Loukomskaia. On types of discursive speech.

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The article describes some potentialities of the communicative process of students and types of discursive speech. The author analyses the tasks and purposes confronting a foreign language teacher in training research workers.

E.A. Larkina, T.L.A. Bui, E.P. Tkachevskaya, A.F. Mironov. Interaction between pheophorbide *a* and primary aliphatic amines.

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Журнал выходит один раз в два месяца и публикует обзоры и статьи по актуальным проблемам химической технологии и смежных наук. Журнал основан в 2006 году. Учредителем журнала является Московская государственная академия тонкой химической технологии им. М.В. Ломоносова (МИТХТ).

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