## CONTENTS

## Biotechnology and industrial ecology A.S. Maximov, A.A. Yuminova, E.A. Farberova, E.A. Tingaeva Active carbons when in use for extraction of lanthanum and terbium ions O.Yu. Mankovskaya, O.I. Bakhireva, M.M. Sokolova, L.S. Pan Study of methods for treating production solutions from nickel ions.......18 L.S. Pan, O.I. Bakhireva, E.A. Tsypkina Disinfection of water by sorbents on the basis of iodine ......29 Automation and control of chemical technology processes M.V. Vataleva, A.G. Shumikhin Inventory management of raw materials in the production of dry magnesian A.S. Aleksandrova, A.G. Shumikhin Comparison of methods for creating a regulator model for building a neural network model of a controlled object ......50 S.A. Vlasov, Ya.S. Shamshieva Automation of a barometric capacitor of a vacuum creating system for the installation of CDU ......64 Processes and apparatus of chemical technology D.A. Ivantsov. A.G. Hludenev Improvement of the hardware design process monoethanolamine cleaning of raw gas in "LUKOIL-Permnefteorgsintez" with the use of apparatus G.I. Efremov, V.I. Martynenko Refined calculation of recuperative heat exchangers .......86 Chemical technology of inorganic compounds and new materials N.P. Uglev, S.N. Uglev Intricate effects of simple fluid......96 A.M. Ignatova, M.V. Yudin Industrial tests of magnesium electrolyzers with layer from cast mixed

crystalline fluorine fluorous type material......109