SIMULATION OF THE OPERATION OF CHEMICAL PLANTS IN STATIONARY CONDITIONS AND THE PART PLAYED BY IT IN THE ANALYSIS AND THE IMPLEMENTATION IN OPTIMUM CONDITIONS OF THE MODERN TECHNOLOGIES

Maria Băleeşti — Ionescu and M. Neguţ, ICECHIM, Bucharest, (Romania)

The chemical industry is characterized by a strong dynamism demonstrated by the existence of an ever increasing number of new products and technologies, which require the best industrial implementation solutions, in order to be competitive on a world-wide scale.

Modern industrial units are characterized by the complexity of technologies, by great production capacities and by important investment of human and material resources. A special importance lies in the short time transposition to an industrial scale of the research activity results, in conditions of raised economic efficiency, with reduced investment and import volumes. The possibility of accomplishing these objectives requires the utlilzation of scientific methods and efficient optimization strategies, necessary for the realization of the decision adopted for conceiving new objectives and for the analysis of the existent ones.

This work presents the modular structure of a programme system designed for optimization, its organization principles and the possibilities provided for the analysis and the implementation of technologies in modern chemical plants under optimum conditions.