

## **CONCENTRATION FIELDS AND THE PHENOMENA OF CONDUCTION IN ELECTROMEMBRANE SYSTEMS**

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In article the new results obtained with application of a laser interferometry method at research of the phenomena of conduction in electro-membrane systems are presented. Visualization of concentration fields on the limiting a membrane-solution has allowed to solve following problems of kinetics of electro dialysis: sizing of diffusive boundary layers, development of new methods of measurement of limiting current density and kinetic characteristics of membranous transport, the decision of a problem of verification of mathematical models of the electro dialysis using the field concept. The method of laser interferometry is applied to research of instability of concentration fields at high-intensity modes of electro dialysis.