Research on Volt-Ampere Characteristics in the Process of Electrodeionization Purification of Industrial Solutions from Chromium-Containing Substances

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Abstract: The paper justifies the choice of the electrodeionization process as a process for purifying industrial wastewater from chromium-containing compounds. The theoretical aspects of the electrodeionization process are considered; the methodology, experimental membrane cell and installation for studying current-voltage characteristics are presented. The change in current density as a function of voltage during the process of electrodeionization during the treatment of chromium-containing wastewater, and the value of electrical conductivity at various current density readings were studied.