Modelo difusional de extraccion de cobre por solventes sobre membranas liquidas de soporte solido del tipo hollow fibers aplicado a aguas de minas Valenzuela, Fernando Basualto, Carlos

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The transport of copper from EI Teniente's mine waters by solvent extraction in a membrane extractor using a hollow fiber as solid support as solid support has been studied. LIX-860, a salicylaldoxime was used as carrier. The flux of metal was highly influenced by the extractant concentration and slightly by the pH of feed solution. The experimental results were analyzed by a diffusion model which considers extraction chemical reaction would occur at inner interface of liquid membrane and assumes that diffusion of copper-extractant complex through the membrane would be the rate-controlling step. A good agreement was observed between the experimental results of flux and the calculated ones by use of this diffusional transport mode.