

Residual cellolignine in dyes recovery from aqueous media

Daniela ŞUTEU^{a*}, Lavinia TOFAN^a and Theodor MĂLUŢAN^b

^aDepartment of Analytical Chemistry, „Gheorghe Asachi” Technical University Iaşi, 71A D. Mangeron Blvd. 700050, Romania

^bDepartment of Biology, „Gheorghe Asachi” Technical University Iaşi, 71A D. Mangeron Blvd. 700050, Romania

Abstract Dyes removal from textile effluents has been the subject of attention of environmental specialists, because their possible toxicity and carcinogenicity, highlighted by the fact that many dyes formerly were made of known carcinogens (i.e. benzidines). Other problem of presence of dyes is the visibility of effluents. Our research presented the results of study about cellolignine, residual product from wood industry, which has been tested in view to its use as material with sportive properties in recovery of dyes from waste waters. The sorption systems are described using Langmuir and Freundlich isotherm models. In order to processes monitoring the experimental data are statistically processed by linear regression.

Keywords: sorption, reactive dyes, cellolignine sorbent, aqueous solutions
