

BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI
TOMUL LIV (LVIII), FASC. 3, 2008
ELECTROTEHNICĂ, ENERGETICĂ, ELECTRONICĂ

IMPROVING THE SELECTIVITY OF ELECTROCHEMICAL SENSORS BY COMPENSATING INTERFERENCE ERRORS

BY

***CĂTĂLINA SELIMAN, *D. COSTINEANU, *CRISTINA BRĂTESCU and
*RAMONA BURLACU**

Abstract. The paper presents a possibility of compensating the interference errors by studying the influence of the other components upon the selectiveness of an electrochemical sensor. For this, a monitoring system has been whose operation is based on sensitivity and selectivity of each sensor corresponding to each kind of pollutant. The authors took into account the working principle of detection and the main considerations of measurements for generated signals corresponding to chemical determination of each pollutant.

Keywords: pollutant, electrochemical sensors, PID, environmental monitoring