

Valery Kochev. POSSIBILITIES FOR IMPLEMENTATION OF ELECTROSTRICTION IN THE AREA OF SENSORS TECHNOLOGIES

Prospects of employment of a well-known physical phenomenon – the electrostriction, for the purposes of sensors development are considered in this work. Solid supported thin liquid films have been recently envisaged as a promising sensitive interface. Their formation is promoted by electrostriction. In this way, monolayers of biologically relevant molecules can be achieved. The abilities of such tiny structures to play a role of receptor part for new-designed biosensors are discussed.

Key words: electrostriction, solid supported thin liquid films, biosensors

PACS numbers: 87.90.+y