Abstract

In this paper, we proposed the designing of control system for cantilever based biosensor. In cantilever based biosensor, as the device dimension changes the sensitivity of the device reduces which is of prime important in biosensor. To improve the sensitivity of the device we propose to fabricate the digital feedback control system which will take care of providing the predeflection of the cantilever beam to maintain the constant gap between the electrodes inspite
of variation due to fabrication process. We have design digital feedback control system for biosensor. The stability and related issues of the proposed device is discussed.

Reference


Index Terms

Computer Science Wireless
Design and Simulation of Feedback Controller for Biosensor

Key words

Biosensor
Microcantilever
Feedback system
FPGA