International J. of Multidispl. Research & Advcs. in Engg.(IJMRAE), ISSN 0975-7074, Vol. 2, No. II, July 2010, pp. 1-9

PARAMETRIC STUDIES FOR FOLDED-BEAM SUSPENSION OF MEMS GYROSCOPE

V. USHA SHREE, P. RAMANA RAO, P. CHANDRA SEKHAR REDDY, M. SREENIVASULU, P. SRIKANTH AND M. ARUN KUMAR

Abstract

In this paper variations in Micro-Electro-Mechanical-System (MEMS) sensors gyroscope suspension design have been explored. Designs that utilize in-plane and out-of-plane sensing and resonant frequency are studied Design and analysis of poly-silicon gyroscopes have been carried out.

Keywords: In-plane and out-of-plane stiffness, resonant frequency, MEMS gyroscope

© Ascent Publication House: http://www.ascent-journals.com