EE607: MICROELECTROMECHANICAL SYSTEMS (MEMS)

Technology methods and physical principles of MEMS including survey of current MEMS

- Instructor: Prof. Eun Sok Kim (eskim@usc.edu, PHE 602, 740-4697)
 - Office Hours: Wednesday and Friday 3:00-3:50
- Class Time and Place: Friday 9:00 11:50am
- Textbook: My lecture notes from http://blackboard.usc.edu/
 The following books may be helpful on some specific topics of the course.
 - Micromachined Transducers Sourcebook by Gregory Kovacs
 - Fundamentals of Microfabrication by Marc Madou
 - Introduction to Microelectromechanical Systems Engineering by Nadim Maluf
 - Microsystem Design by Stephen Senturia
 - RF MEMS Theory, Design and Technology by Gabriel Rebeiz
 - Microsensors, MEMS and Smart Devices by Julian Gardner, et al.
 - Foundations of MEMS by Chang Liu

Solid State Sensor Actuator Workshop

IEEE Electron Devices Society

Solid State Sensor Actuator Workshop:

Solid-State Sensor and Actuator Workshop, 1988. Technical Digest., IEEE., 1988 **Solid-State Sensor and** Solid-state Sensor and Actuator Workshop ,1996 Actuator Workshop, 1990. 4th Technical Digest., IEEE. 1990 Solid-State Sensor and Actuator Workshop, Hilton Head Island, South Carolina, June 3-6, 1996, 1996 Solid-State Sensor and Actuator Workshop IEEE Electron Devices Society, 1988 **IEEE Solid-State Sensor and** Actuator Workshop ,1992-01-01 3rd Ieee Solid State Sensor and Actuator Workshop ,1988 **MEMS Vibratory** Gyroscopes Cenk Acar, Andrei Shkel, 2008-12-16 MEMS Vibratory Gyroscopes provides a solid foundation in the theory and fundamental operational principles of micromachined vibratory rate gyroscopes and introduces structural designs that provide inherent robustness against structural and environmental variations In the first part the dynamics of the vibratory gyroscope sensing element is developed common micro fabrication processes and methods commonly used in inertial sensor production are summarized design of mechanical structures for both linear and torsional gyroscopes are presented and electrical actuation and detection methods are discussed along with details on experimental characterization of MEMS gyroscopes In the second part design concepts that improve robustness of the micromachined sensing element are introduced supported by constructive computational examples and experimental results illustrating the material Solid State Sensor and Actuator IEEE Electron Devices Society, 1990 **IEEE Solid-State Sensor and Actuator Workshop** Institute of Electrical and Electronics Engineers (New York, N.Y.),1988 Solid-State Sensor and Actuator Workshop, Hilton Head Island, South Carolina, June 2-6, 2002, 2002 Solid-state Sensor and Actuator Workshop, 1996 **Solid-State** Sensor and Actuator Workshop, Hilton Head Island, South Carolina, June 13-16, 1994, 1994 **Solid-State Sensor** and Actuator Workshop, Hilton Head Island, South Carolina, June 4-8, 2000 Transducers Research Foundation, Sensors, Mechanical Sensors Wolfgang Göpel, Joachim Hesse, J. N. Zemel, 2008-11-20 Sensors is the first self Inc,2000 contained series to deal with the wholearea of sensors It describes general aspects technical andphysical fundamentals construction function applications and developments of the various types of sensors. This volume contains the physical and technical fundamentals of mechanical sensors and contains and assesses the various types of sensors for particular applications Of interest to engineers physicists chemists and others involved in sensor technology From MEMS to Bio-MEMS and Bio-NEMS Marc J. Madou, 2011-06-13 From MEMS to Bio MEMS and Bio NEMS Manufacturing Techniques and Applications details manufacturing techniques applicable to bionanotechnology After reviewing MEMS techniques materials and modeling the author covers nanofabrication genetically engineered proteins artificial cells nanochemistry and self assembly He also discusses scaling laws in MEMS and NEMS actuators fluidics and power and brains in miniature devices He concludes with coverage of various MEMS and NEMS applications Fully illustrated in color the text contains end of chapter problems worked examples extensive references for further reading and an extensive glossary of terms Details the

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systems MEMS are growing at an explosive rate with a worldwide market approaching billions of dollars In time microdevices will fill the niches of our lives as pervasively as electronics do right now But if these miniature devices are to fulfill their mammoth potential today s engineers need a thorough grounding in the underlying physics modeling techniques fabrication methods and materials of MEMS The MEMS Handbook delivers all of this and more Its team of authors unsurpassed in their experience and standing in the scientific community explore various aspects of MEMS their design fabrication and applications as well as the physical modeling of their operations Designed for maximum readability without compromising rigor it provides a current and essential overview of this fledgling discipline MEMS and MOEMS

Technology and Applications P. Rai-Choudhury,2000 The silicon age that led the computer revolution has significantly changed the world The next 30 years will see the incorporation of new types of functionality onto the chip structures that will enable the chip to reason to sense to act and to communicate Micromachining technologies offer a wide range of possibilities for active and passive devices Recent developments have produced sensors actuators and optical systems Many of these technologies are based on surface micromachining which has evolved from silicon integrated circuit technology This book is written by experts in the field It contains useful details in design and processing and can be utilized as a reference book or as a textbook

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