Code No: 118CY

R13

[3]

(50 Marks)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2019 MIEMS DESIGN

(Mechanical Engineering (Mechatronics))

Firme: Schours

1)

Max. Marks: 75

Note: This question paper contains two parts A and B.

Pan A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of SUries. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

1.30Explain the role of nametechnology in MEMS fabrication. [2] Differentiate between structural and sacrificial materials. [31]b) List out the basic modeling elements in electrical system. 0) [2]What are the features of passive election by systems? d) [3] Explain the working principle of peltiereffect heat pump. 121e). Give the characteristics of shape memory allows 0 [3] What are the uses of beam splitter? (S) [2] hi Explain the principle of optical switch. [3] What are the applications of MEMS inductors > 1) [2] Explain the working of MEMS based phase shiften

PART-B

- 2.aDescribe bio and chemo devises.
 - Explain various stages at which impurity doping is done in MEMS fabrication. (6) [5+5]

3.20 Explain the steps involved in photolithography.

Differentiate between bulk and surface micromachining. (b)

Explain the features of passive mechanical systems. 4.a)

Describe the basic modeling elements of fluid systems. 60

OR

- 5. Explain the steps involved in the modeling of pure mechanical system with spring damper and mass.
- With the help of suitable diagrams explain how flow measurement can be done using 6. integrated paddle-cantilever structure.

OR

7. Explain the steps involved in the fabrication of micro-machined thermocouple probe and explain its working.

Mems Question Papers

Patrick Vollmar

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Microelectromechanical Systems National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Commission on Engineering and Technical Systems, Committee on Advanced Materials and Fabrication Methods for Microelectromechanical Systems, 1998-01-01 Microelectromenchanical systems MEMS is a revolutionary field that adapts for new uses a technology already optimized to accomplish a specific set of objectives The silicon based integrated circuits process is so highly refined it can produce millions of electrical elements on a single chip and define their critical dimensions to tolerances of 100 billionths of a meter The MEMS revolution harnesses the integrated circuitry know how to build working microsystems from micromechanical and microelectronic elements MEMS is a multidisciplinary field involving challenges and opportunites for electrical mechanical chemical and biomedical engineering as well as physics biology and chemistry As MEMS begin to permeate more and more industrial procedures society as a whole will be strongly affected because MEMS provide a new design technology that could rival perhaps surpass the societal impact of integrated circuits

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Microelectromechanical Systems ,2007 Micro and Nano Fabrication Hans H. Gatzen, Volker Saile, Jürg Leuthold, 2015-01-02 For Microelectromechanical Systems MEMS and Nanoelectromechanical Systems NEMS production each product requires a unique process technology This book provides a comprehensive insight into the tools necessary for fabricating MEMS NEMS and the process technologies applied Besides it describes enabling technologies which are necessary for a successful production i e wafer planarization and bonding as well as contamination control MOEMS M. Edward Motamedi, 2005 This book introduces the exciting and fast moving field of MOEMS to graduate students scientists and engineers by providing a foundation of both micro optics and MEMS that will enable them to conduct future research in the field Born from the relatively new fields of MEMS and micro optics MOEMS are proving to be an attractive and low cost solution to a range of device problems requiring high optical functionality and high optical performance MOEMS solutions include optical devices for telecommunication sensing and mobile systems such as v grooves gratings shutters scanners filters micromirrors switches alignment aids lens arrays and hermetic wafer scale optical packaging An international team of leading researchers contributed to this book and it presents examples and problems employing cutting edge MOEM devices It will inspire researchers to further advance the design fabrication and analysis of MOEM systems

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Table of Contents Mems Question Papers

- 1. Understanding the eBook Mems Question Papers
 - The Rise of Digital Reading Mems Question Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mems Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mems Question Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mems Question Papers
 - Personalized Recommendations
 - Mems Question Papers User Reviews and Ratings
 - $\circ\,$ Mems Question Papers and Bestseller Lists
- 5. Accessing Mems Question Papers Free and Paid eBooks
 - Mems Question Papers Public Domain eBooks
 - Mems Question Papers eBook Subscription Services
 - Mems Question Papers Budget-Friendly Options

- 6. Navigating Mems Question Papers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mems Question Papers Compatibility with Devices
 - Mems Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mems Question Papers
 - Highlighting and Note-Taking Mems Question Papers
 - Interactive Elements Mems Question Papers
- 8. Staying Engaged with Mems Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mems Question Papers
- 9. Balancing eBooks and Physical Books Mems Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mems Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mems Question Papers
 - Setting Reading Goals Mems Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mems Question Papers
 - Fact-Checking eBook Content of Mems Question Papers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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