

MODEL QUESTION PAPER
SEVENTH SEMESTER B.TECH DEGREE EXAMINATION
Elective IV

08.736 MEMS (TA)

Time 3 hours

Max. Marks 100

PART A

(Answer *All* questions)

(10 x 4 = 40marks)

1. List a few applications of Microsystems in the automotive industry.
2. Explain the working principle of chemical micro sensors.
3. With neat sketches, explain micro grippers.
4. Explain Tripper Force Scaling Vector.
5. What is ion implantation?
6. What is the working principle of the chemical vapour deposition?
7. What are the major advantages of surface micro matching?
8. Why silicon is widely used as the substrate material for MEMS and Microsystems?
9. What are the principle requirements that should be considered on the detailed design analysis?
10. Mention a few optical MEMS components.

PART B

(Answer any two questions from each module)

MODULE I

(10x3=30 marks)

11. Explain micro pressure sensors.
12. Briefly explain micro accelerometers.
13. Write notes on scaling in heat transfer.

MODULE II

(10x3=30marks)

14. With neat sketches explain the steps involved in photolithography
15. Explain the fabrication steps in the LIGA process.
16. Explain bulk micro manufacturing.

MODULE III

(10x3=30 marks)

17. Explain the three levels of micro system packaging.
18. Explain the various interfaces in micro system packaging.
19. Explain the selection of signal transduction in micro system.

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Manufacturing Systems and Industry Application Yan Wen Wu, 2011-06-30 Selected peer reviewed papers of the 2011 International Conference on Materials Engineering for Advanced Technologies ICMEAT 2011 May 5 6 2011 Singapore Singapore **The Europa Year-book** Michael S. Farbman, Ramsay Muir, Hugh F. Spender, 1926 **Micromachined Circuits and Devices** Shibani Kishen Koul, Sukomal Dey, 2022-02-07 This book presents the design of different switching and resonant devices using the present state of the art radio frequency RF micromachining MEMS technology Different topologies of MEMS switches have been discussed considering optimum performances over microwave to millimeter wave frequency range Wide varieties of micromachined switching networks starting from single pole double throw SPDT to single pole fourteen throw SP14T are discussed utilizing vertical and lateral actuation movements of the switch Different transduction mechanisms of micromachined resonators are highlighted that includes capacitive piezoelectric and piezoresistive types The book provides major design guidelines for the development of MEMS based digital phase shifters

tunable filters and antennas with extensive measurement data Apart from the radio frequency RF requirements an extensive guideline is given for the improvement of the reliability of micromachined switches and digital phase shifters where multiple switches are operating simultaneously It takes multiple iterations and extensive characterizations to conclude with a reliable MEMS digital phase shifter and these aspects are given one of the prime attentions in this book Detailed performance analysis of metamaterial inspired MEMS switches is then discussed for application in millimeter wave frequency bands up to about 170 GHz The book concludes with future research activities of RF MEMS technology and its potential in space defense sensors and biomedical applications

The Electrical Engineering Handbook Wai Kai Chen, 2004-11-16 The Electrical Engineer's Handbook is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer's first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for all practitioners and students The Electrical Engineer's Handbook provides the most up to date information in Circuits and Networks Electric Power Systems Electronics Computer Aided Design and Optimization VLSI Systems Signal Processing Digital Systems and Computer Engineering Digital Communication and Communication Networks Electromagnetics and Control and Systems About the Editor in Chief Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems He was Editor in Chief of the IEEE Transactions on Circuits and Systems Series I and II President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor in Chief of the Journal of Circuits Systems and Computers He is the recipient of the Golden Jubilee Medal the Education Award and the Meritorious Service Award from the IEEE Circuits and Systems Society and the Third Millennium Medal from the IEEE Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science 77 chapters encompass the entire field of electrical engineering THOUSANDS of valuable figures tables formulas and definitions Extensive bibliographic references

Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges Nigel Powers, Dan Frangopol, Riadh Al-Mahaidi, Colin Caprani, 2018-07-04 Maintenance Safety Risk Management and Life Cycle Performance of Bridges contains lectures and papers presented at the Ninth International Conference on Bridge Maintenance Safety and Management IABMAS 2018 held in Melbourne Australia 9-13 July 2018 This volume consists of a book of extended abstracts and a USB card containing the full papers of 393 contributions presented at IABMAS 2018 including the T Y Lin Lecture 10 Keynote Lectures and 382 technical papers from 40 countries The contributions presented at IABMAS 2018 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of bridge maintenance safety risk management and life cycle performance

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Big Data Analytics for Smart Healthcare applications Celestine Iwendi, Thippa Reddy Gadekallu, Ali Kashif Bashir, 2025-12-10

Due to the rapid increase of digitalization numerous technologies like the Internet of Medical Things IoMT Wearable devices a huge amount of healthcare data is being generated in multiple formats than ever before Big data analytics ascertain the proof that has a huge mandate for knowledge discovery solving problems computing efficiency It mainly emphasizes the peculiar tests regarding the information data processing analytical modeling and managing the officialdoms to turn big data into big insight The main theme of this special issue is to gather the contemporary exploration of the cutting edge developments issues and challenges in big data analytics for smart healthcare systems Proposed submissions should be original unpublished and novel in depth research that makes significant methodological or application contributions Review papers case studies and theoretical works are also accepted Machine learning with big data for smart health care Soft computing techniques with Big Data for healthcare applications Big data for Internet of Medical Things IoMT Security and privacy issues in IoMT enabled systems Blockchain with Big data for IoMT Blockchain with Edge computing for healthcare applications Interoperability Development Testing of IoMT Industrial Internet of Things IIoT based big data for smart healthcare Big data and Cobots for Healthcare applications Future challenges and applications of Big data in Smart Healthcare systems

ASME Technical Papers, 1999

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richard meier retires as his eponymous firm changes its name - Mar 29 2023

web jun 25 2021 architectural record first broke the news of 86 year old meier s formal departure on wednesday afternoon in announcing the change and the departure of the 86 year old meier the firm also

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list of works by richard meier wikipedia - Jul 01 2023

web as of 2021 meier was available for consultation upon request at meier partners this list considers as part of richard meier s artistic cannon all of meier s work before 1964 all of richard meier partners work which began before 2018 as well as any post 2018 work where he is specifically cited as a contributor

richard meier wikipedia - Aug 02 2023

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