

MECHANICAL MEASUREMENTS & METROLOGY LAB

VIVA QUESTIONS

1. What is measurement?
2. Define metrology.
3. What is least count?
4. What is one Main Scale Division?
5. What is one Vernier Scale Division?
6. How will you find the least count of Floating Carriage micrometer?
7. What is calibration?
8. What are the standards used in calibration of micrometer & Load cell?
9. What is linear measurement?
10. Explain the principle of Load cell.
11. What is strain gauge?
12. Explain the principle of Wheatstone bridge.
13. What is pressure transducer?
14. What is the difference between slip gauge and pitch gauge?
15. What is the difference between Vernier caliper & Gear tooth vernier caliper?
16. What is module?
17. How will you find the module to measure the thickness of the gear tooth?
18. What is the difference between gear and screw thread?
19. Explain how you measure minor and effective diameter.
20. What is the difference between three wire method & two wire methods?
21. What is pitch in micrometer?
22. Write the formulae used to find major, minor & effective dia. in floating carriage micrometer.
23. How you find the wire size to find effective diameter?
24. Explain the principle of optical flat?
25. Optical flat is made up of which material?
26. Which is instrument used to find the effective diameter very accurately?
27. Name the instrument used to find the screw thread parameters.
28. What is error?
29. Mention the two important requirements of measurements.

Measurement Lab Viva

Zhe Xu



Measurement Lab Viva:

ELECTRONICS LAB MANUAL (VOLUME 2) NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students **KEY FEATURES** Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices **TARGET AUDIENCE** B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering *Electrical Circuit Analysis Lab* Mr. Rohit Manglik, 2024-07-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Physical Chemistry Laboratory Manual** Ramesh Kumari, Amirtha Anand, 2018-10-05 This book covers the latest syllabus of CBCS pattern of Delhi and other universities for both B Sc Programme and Honours courses A large number of Physical Chemistry Environmental Chemistry Nanoscience Polymer Chemistry and Analytical Chemistry experiments have been covered using interdisciplinary and innovative methods The contents include some fundamental chemical concepts measurement of surface tension and viscosity colorimetry determination of order of a reaction heterogeneous equilibria adsorption on solid surfaces thermochemical measurements conductometric and potentiometric measurements pH metry environmental parameter analysis etc Wherever possible two or more methods are given So the teachers and students will have a choice to make depending on the availability of chemicals apparatus instruments time etc This book will give them the opportunity to relate theory and practicals for a better understanding of the subject *Engineering Practices Lab Manual - 5Th E T* Jeyapoovan Nadar, Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be used and exercises to be practiced in the application of

engineering practices in each field **Respecifying Lab Ethnography** Philippe Sormani, 2016-04-08 Respecifying Lab Ethnography delivers the first ethnomethodological study of current experimental physics in action describing the disciplinary orientation of lab work and exploring the discipline in its social order formal stringency and skilful performance in situ and in vivo Drawing upon extensive participant observation this book articulates and draws upon two major strands of ethnomethodological inquiry reflexive ethnography and video analysis In bringing together these two approaches which have hitherto existed in parallel Respecifying Lab Ethnography introduces a practice based video analysis In doing so the book recasts conventional distinctions to shed fresh light on methodological issues surrounding the descriptive investigation of social practices more broadly An engaged and innovative study of the encountered worksite this book will appeal not only to sociologists with interests in ethnomethodology and the sociology of work but also to scholars of science and technology studies and those working in the fields of ethnography and social science methodology *Lab Activities on CHE509, CHE510, CHE511* Mr. Rohit Manglik, 2024-03-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Digital Electronics Rishabh Anand, The book covers the complete syllabus of subject as suggested by most of the universities in India Proper balance between mathematical details and qualitative discussion Subject matter in each chapter develops systematically from inceptions Large number of carefully selected worked examples in sufficient details Each chapter of the book is saturated with much needed test supported by neat and self explanatory diagrams to make the subject self speaking to a great extent No other reference is required Ideally suited for self study **Microwave and Optical Communications Lab Manual** Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Lab Activities 1 (Master of Science in Environmental Science - Semester 1)** Mr. Rohit Manglik, 2024-03-19 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Comprehensive Practical Science IX S.P. Saxena, Dheeraj Saxena, 2010

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