

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

Course Code:13EC1120

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Course Outcomes:

At the end of the course the student will be able to

- CO 1** Comprehend concepts and performance characteristics of instruments.
- CO 2** Illustrate the functional blocks of CRO.
- CO 3** Compare various types of wave analyzers and analyze Digital meters.
- CO 4** Design different types of bridge circuits to measure unknown components of R, L, C and Quality factor.
- CO 5** Analyze various measuring techniques to measure non-electrical quantities such as pressure, force, temperature, displacement, speed and humidity.

UNIT-I

(14 Lectures)

MEASUREMENT SYSTEMS:

Performance characteristics of instruments, Static characteristics, Accuracy, Resolution, Precision, Expected value, Error, Sensitivity. Errors in Measurement, Dynamic Characteristics-speed of response, Fidelity, Lag and Dynamic error, DC Voltmeters, Ammeters- Multi-range, Range extension, AC voltmeters-multi-range, range extension-shunt. Thermocouple type RF ammeter, Ohm meters series type, shunt type, Voltage, Current, Resistance measurement using DMM, Auto zeroing, Auto ranging.

UNIT-II

(12 Lectures)

CATHODE RAY OSCILLOSCOPE:

Oscilloscopes CRT features, vertical amplifiers, horizontal deflection

Course Syllabus Measurements And Instrumentation

JS Bruner



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1997 IEEE Instrumentation and Measurement Technology Conference ,1997 **ICOME 2021** Eka Putra Ramdhani,Gabriele Weichart,Zakariya Hama,Hilfi Pardi ,2022-01-07 This book is the proceeding of the International Conference on Maritime Education ICOME 2021 that was successfully held on 3 5 November 2021 using an online platform The conference was mainly organized by The Faculty of Teacher Training and Education Universitas Maritim Raja Ali Haji FKIP UMRAH This conference aims to provide a forum for scholars professionals and academics to share their fruitful insights on current issues in education Each participant will get an opportunity to expand their networks and collaborate at the ICOME 2021 The conference s theme is The Reinforcement of Educational System Values and Characters in Maritime Education The number of participants who joined the zoom room was recorded at 296 participants and 30 participants attended the conference directly at the Aston Hotel Tanjungpinang Indonesia The 27 full papers presented were carefully reviewed and selected from 41 submissions The papers reflect the conference sessions as follows teaching methods and approaches testing and evaluation educational management and policy designing syllabus and production of teaching materials teacher training and professional development digital literacy and technology usage for education challenges and barriers in coastal education character education in maritime context curriculum development for maritime context international cross national and domestic forces in the shaping of educational ideologies educational systems and patterns of teaching and learning *Instrument Practice* ,1970 Assessing Media Education William Christ,2017-07-05 The chapters included in this component of Assessing Media Education are intended for those who have already developed an assessment plan and identified key student learning outcomes and who need more information on how to measure the outcomes both indirectly and directly **Journal of the Society of Arts** ,1893 Assessing Media Education William G. Christ,2013-11-05 This component of Assessing Media Education is intended for those who would like to know how other schools have grappled with implementing assessment initiatives and who have used assessment to improve their programs

THE JOURNAL OF THE SOCIETY OF ARTS ,1879 **Final Report ...** Great Britain. Royal College of Science Departmental Committee,1906 *The Optician and Scientific Instrument Maker* ,1930 A Tentative Syllabus in Junior High School Mathematics University of the State of New York,1927 *Journal of the Society of Arts* Royal Society of Arts (Great Britain),1879 **Journal of the Royal Society of Arts** Royal Society of Arts (Great Britain),1879 **Sessional Papers** Great Britain. Parliament. House of Commons,1902 **Electronic Feedback in Large University Statistics Courses** Andreas Maur,2023-05-18 Digital tools and pedagogies in public higher education are unfolding their potential by providing large groups of students with automated continuous learning and feedback opportunities However most of the existing studies are cross sectional unidirectional and focus on a limited selection of relevant target variables and instructional features In a field study Andreas Maur used longitudinal latent structural equation modelling with a large

sample of students to analyse the interrelations between formative feedback from electronic quizzes and different facets of the control value theory of achievement emotions The results suggest that regular quizzes most consistently improve self efficacy anxiety effort course enjoyment and hopelessness over time Only feedback effects related to intrinsic motivation were consistently less effective for female and less proficient students and for students in traditional versus flipped classrooms These findings highlight the need to scale up formative feedback in higher education and to cultivate feedback systems with higher levels of sophistication adaptability and gamification mechanics **Journal of the Royal Society of Arts** ,1879 The Nurse Educators Guide to Assessing Learning Outcomes Mcdonald,2017-07-28 The Nurse Educator s Guide to Assessing Learning Outcomes Fourth Edition is a widely used resource for both faculty and nursing education students that covers the assessment of critical thinking the development of learning objectives and the creation of tests including detailed tips for writing many kinds of individual test items The book also covers the analysis of test reliability Important Notice The digital edition of this book is missing some of the images or content found in the physical edition **Prospectus of Day College for Men** Chelsea, England. Southwestern polytechnic,1903 **Measurement Techniques** Instrument Society of America,1961 Calendar University of the Witwatersrand,1929 **Calendar** University of Cape Town,1923

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reconstruct - a life ... reconstructing a fossil pterosaur RECONSTRUCTING A FOSSIL PTEROSAUR. Introduction. Fossils give ... crassirostris, background information from the lab, and the answers to your analysis. Pterosaur Reconstruction Bi Apr 21, 2017 — The bones of one pterosaur, Scaphognathus crassirostris, were discovered in 1826 by the German scientist, August Goldfuss. The fossilized bones ... reconstructing a fossil pterosaur.pdf - Name: Date: Period ng evidence from the reconstructed skeleton,you will infer some habits and adaptations of this pterosaur. OBJECTIVES Reconstruct the skeleton of S.crassirostris ... Pterosaur Reconstruction.doc Data: Copy the chart on your own paper and turn in with questions and your fossil Table 1 Characteristics ofS. crassirostris Wingspan (centimeters)? Jaw ... Using Mathematics in Fossil Reconstruction How would scientists predict the pterosaur's probable wingspan from these pieces? Data from similar pterosaurs found throughout the world were available from ... Early pterosaur reconstructions - Archosaur Musings Jul 6, 2009 — ... fossil (though the ones in the background look far more ... Mesozoic Vertebrates The Munich palaeo lab; Mike Taylor's site Mike's research ... Schematic skeletal reconstruction of the small Jurassic ... Pterosaurs are an extinct group of Mesozoic flying reptiles, whose fossil record extends from approximately 210 to 66 million years ago. They were integral ... Julian ☐ (@009julian) • Instagram photos and videos 47K Followers, 28 Following, 987 Posts - See Instagram photos and videos from Julian (... M2 Performance Nutrition. Follow. Committed in the cold ☐ Dedicated ... I Chose The MacBook Air M2 - by Julian Cosky I am the proud owner of a new MacBook Air M2, in beautiful Midnight. Let's go back a few years... I bought my first MacBook in May 2016. Julian Quintania - Production Assistant - M2 Ingredients Julian Quintania. Attended The Art Institute of California-Inland Empire. M2 Ingredients The Art Institutes. Carlsbad, California, United States. MOTU - Julian Krause gives an in-depth review of our new... Julian Krause gives an in-depth review of our new MOTU M2 audio interface! Check out the video below for more audio examples, measurements, ... A Look Inside David Taylor's M2 Training Center | Julian, PA ... Alexan-Julian-M2-01-Model-Kitchen-0343 Blend History with Haute in Denver. The comforts within our luxury apartments at Alexan Julian don't just extend to our homes. In fact, our great location ... Julian Sport: promoting an active lifestyle with M2 & Hyvä theme Julian Sport is a dynamic online retailer catering to sports enthusiasts of all levels. With a wide range of products and a passion for promoting an active ... Rebekah Julian Nov 10, 2022 — An esteemed and experienced panel of judges from the optical communications community recognized M2 Optics as a high-scoring honoree for the ... Case 688 Crawler Excavator Service Repair Manual Parts ... Amazon.com: Case 688 Crawler Excavator Service Repair Manual Parts Catalog Shop Book : Patio, Lawn & Garden. Case 688 Excavator - Service Manual This is the complete service manual for the Case 688 excavator. This machine also goes by the name crawler excavator or hydraulic excavator. Case 688 Manual Apr 12, 2022 — Case 688 Manual. Case 688 Crawler Excavator Service Repair Manual. Complete Service Manual, available for instant download to your computer, ... CASE Construction 688 Excavator before PIN # 11601 ... Additional Information: This manual encompasses engine maintenance and repair. Introduction. This service manual has been prepared with the latest

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