

CBGS SCHEME



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Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019

Virtual Bioinstrumentation

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is Graphical System Design? With neat block diagram, explain various phases of GSD model. (12 Marks)
b. Give the comparisons between Text – based programming and graphical programming. (04 Marks)

OR

- 2 a. Describe various advantages of LabVIEW. (10 Marks)
b. Explain different types of Front Panel Controls and indicators. (06 Marks)

Module-2

- 3 a. Explain Modular Programming and LabVIEW with suitable example. (08 Marks)
b. Explain the process of creating an ICON and building a connector pane in LabVIEW. (08 Marks)

OR

- 4 a. Create a VI to find the roots of a quadratic equation using sub VI's. Find both the values of the roots and the nature of the roots. (08 Marks)
b. Explain components of computer based measurement. (08 Marks)

Module-3

- 5 a. What are the general goals of VBI applications? Describe features of Bio Bench. (08 Marks)
b. Briefly explain the fundamental experiments that are performed with nerve – muscle preparation. (08 Marks)

OR

- 6 a. Explain physiological basis of electrocardiography, with neat diagram. (08 Marks)
b. Discuss the fundamental experiments performed in electrocardiography through virtual instrumentation. (08 Marks)

Module-4

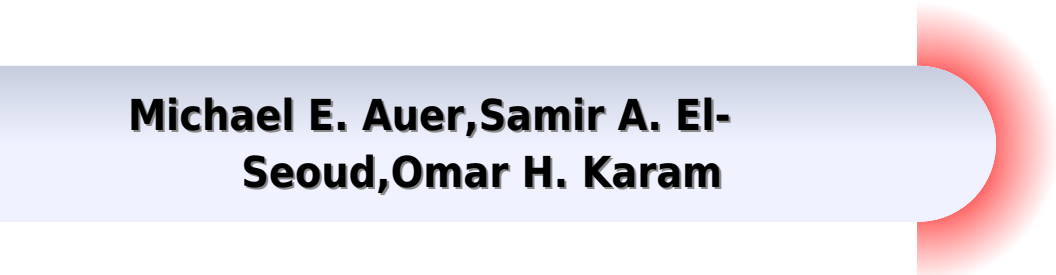
- 7 a. What is the Endo Tester? What is the necessity of such system? Describe the features of Endo Tester System, with neat schematic. (08 Marks)
b. Briefly describe the different tests performed on Endoscope and its peripheral devices. (08 Marks)

OR

- 8 a. Describe the test system used to test the infusion pump. (08 Marks)
b. Explain Training Emulator used in IV Pump test system. (08 Marks)

Semester I Paper 4 Virtual Instrumentation

**Michael E. Auer, Samir A. El-
Seoud, Omar H. Karam**



Semester I Paper 4 Virtual Instrumentation:

INTRODUCTION TO MEASUREMENTS AND INSTRUMENTATION, FOURTH EDITION GHOSH, ARUN K., 2012-10-16

The fourth edition of this highly readable and well received book presents the subject of measurement and instrumentation systems as an integrated and coherent text suitable for a one semester course for undergraduate students of Instrumentation Engineering as well as for instrumentation course paper for Electrical Electronics disciplines. Modern scientific world requires an increasing number of complex measurements and instruments. The subject matter of this well planned text is designed to ensure that the students gain a thorough understanding of the concepts and principles of measurement of physical quantities and the related transducers and instruments. This edition retains all the features of its previous editions viz plenty of worked out examples, review questions culled from examination papers of various universities for practice and the solutions to numerical problems and other additional information in appendices. NEW TO THIS EDITION: Besides the inclusion of a new chapter on Hazardous Areas and Instrumentation, Chapter 15, various new sections have been added and existing sections modified in the following chapters: Chapter 3: Linearisation and Spline interpolation; Chapter 5: Classifications of transducers, Hall effect, Piezoresistivity, Surface acoustic waves, Optical effects. This chapter has been thoroughly modified; Chapter 6: Proximity sensors; Chapter 8: Hall effect and Saw transducers; Chapter 9: Proving ring, Prony brake, Industrial weighing systems, Tachometers; Chapter 10: ITS 90, SAW thermometer; Chapter 12: Glass gauge, Level switches, Zero suppression and Zero elevation, Level switches; Chapter 13: The section on ISFET has been modified substantially.

Interactive Mobile Communication Technologies and Learning Michael E. Auer, Thrasyvoulos Tsiatsos, 2018-02-13

Interactive mobile technologies have now become the core of many if not all fields of society. Not only do the younger generation of students expect a mobile working and learning environment but also the new ideas, technologies and solutions introduced on a nearly daily basis also boost this trend. Discussing and assessing key trends in the mobile field were the primary aims of the 11th International Conference on Interactive Mobile Communication Technologies and Learning (IMCL2017) which was held in Thessaloniki from 30 November to 01 December 2017. Since being founded in 2006, the conference has been devoted to new approaches in interactive mobile technologies with a focus on learning. The IMCL conferences have in the meanwhile become a central forum of the exchange of new research results and relevant trends as well as best practices. This book contains papers in the fields of Future Trends and Emerging Mobile Technologies, Design and Development of Mobile Learning Apps and Content, Mobile Games, Gamification and Mobile Learning, Adaptive Mobile Environments, Augmented Reality and Immersive Applications, Tangible, Embedded and Embodied Interaction, Interactive Collaborative and Blended Learning, Digital Technology in Sports, Mobile Health Care and Training, Multimedia Learning in Music Education, 5G Network Infrastructure, Case Studies, Real World Experiences. The content will appeal to a broad readership including policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, the

learning industry further education lecturers etc

Remote Instrumentation and Virtual Laboratories Franco

Davoli, Norbert Meyer, Roberto Pugliese, Sandro Zappatore, 2010-03-10 Accessing remote instrumentation worldwide is one of the goals of e Science The task of enabling the execution of complex experiments that involve the use of distributed scientific instruments must be supported by a number of different architectural domains which inter work in a coordinated fashion to provide the necessary functionality These domains embrace the physical instruments the communication network interconnecting the distributed systems the service oriented abstractions and their middleware The Grid paradigm or more generally the Service Oriented Architecture SOA viewed as a tool for the integration of distributed resources plays a significant role not only to manage computational aspects but increasingly as an aggregator of measurement instrumentation and pervasive large scale data acquisition platforms In this context the functionality of a SOA allows managing maintaining and exploiting heterogeneous instrumentation and acquisition devices in a unified way by providing standardized interfaces and common working environments to their users but the peculiar aspects of dealing with real instruments of widely different categories may add new functional requirements to this scenario On the other hand the growing transport capacity of core and access networks allows data transfer at unprecedented speed but new challenges arise from wireless access wireless sensor networks and the traversal of heterogeneous network domains The book focuses on all aspects related to the effective exploitation of remote instrumentation and to the building complex virtual laboratories on top of real devices and infrastructures These include SOA and related middleware high speed networking in support of Grid applications wireless Grids for acquisition devices and sensor networks Quality of Service QoS provisioning for real time control measurement instrumentation and methodology as well as metrology issues in distributed systems *Online Engineering and Society 4.0*

Michael E. Auer, Kalyan Ram Bhimavaram, Xiao-Guang Yue, 2021-09-19 This book presents the general objective of the REV2021 conference which is to contribute and discuss fundamentals applications and experiences in the field of Online and Remote Engineering Virtual Instrumentation and other related new technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4 0 Cyber Security and M2M Smart Objects Nowadays online technologies are the core of most fields of engineering and the whole society and are inseparably connected for example with Internet of Things Industry 4 0 Industrial Internet of Things Cloud Technologies Data Science Cross Mixed Reality Remote Working Environments Online Biomedical Engineering to name only a few Since the first REV conference in 2004 we tried to focus on the upcoming use of the Internet for engineering tasks and the opportunities as well as challenges around it In a globally connected world the interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing Another objective of the conference is to discuss guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning MOOCs MOOLs and Open Resources REV2021 on Online Engineering and Society 4 0 was the 17th in a series of annual events

concerning the area of Remote Engineering and Virtual Instrumentation It has been organized in cooperation with the International Engineering and Technology Institute IETI as an online event from February 24 to 26 2021

Futureproofing Engineering Education for Global Responsibility Michael E. Auer,Tiia Rüttermann,2025-03-20 This book contains papers in the fields of Collaborative learning Digital transition in education AI and learning analytics in engineering education Diversity in engineering education The authors are currently witnessing a significant transformation in the development of education on all levels and especially in post secondary and higher education To face these challenges higher education must find innovative and effective ways to respond in a proper way Changes have been made in the way we teach and learn including the massive use of new means of communication such as videoconferencing and other technological tools Moreover the current explosion of artificial intelligence tools is challenging teaching practices maintained for centuries Scientifically based statements as well as excellent best practice examples are necessary for effective teaching and learning engineering The 27th International Conference on Interactive Collaborative Learning ICL2024 and 53rd Conference of International Society for Engineering Pedagogy IGIP which took place in Tallinn Estonia between 24 and 27 September 2024 was the perfect place where current trends in higher education were presented and discussed IGIP conferences have been held since 1972 on research results and best practices in teaching and learning from the point of view of engineering pedagogy science ICL conferences have been held since 1998 being devoted to new approaches in learning with a focus on collaborative learning in Higher Education Nowadays the ICL conferences are a forum of the exchange of relevant trends and research results as well as the presentation of practical experiences in learning and Engineering Pedagogy In this way the authors try to bridge the gap between pure scientific research and the everyday work of educators Interested readership includes policymakers academics educators researchers in pedagogy and learning theory schoolteachers learning industry further and continuing education lecturers etc

Cross Reality and Data Science in Engineering Michael E. Auer,Dominik May,2020-08-20 Today online technologies are at the core of most fields of engineering and society as a whole This book discusses the fundamentals applications and lessons learned in the field of online and remote engineering virtual instrumentation and other related technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4 0 Cyber Security and M2M Smart Objects Since the first Remote Engineering and Virtual Instrumentation REV conference in 2004 the event has focused on the use of the Internet for engineering tasks as well as the related opportunities and challenges In a globally connected world interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In this context the REV conferences discuss fundamentals applications and experiences in the field of Online and Remote Engineering as well as Virtual Instrumentation Furthermore the conferences focus on guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning MOOCs MOOLs and open resources

This book presents the proceedings of REV2020 on Cross Reality and Data Science in Engineering which was held as the 17th in series of annual events It was organized in cooperation with the Engineering Education Transformations Institute and the Georgia Informatics Institutes for Research and Education and was held at the College of Engineering at the University of Georgia in Athens GA USA from February 26 to 28 2020 **Artificial Intelligence and Online Engineering** Michael E. Auer, Samir A. El-Seoud, Omar H. Karam, 2022-10-14 Nowadays online technologies are the core of most fields of engineering and the whole society and are inseparably connected for example with Internet of Things Industrial Internet of Things Industry 4 0 Online Biomedical Engineering Data Science Machine Learning and Artificial Intelligence Cross Mixed Reality and Remote Working Environments to name only a few Since the first REV conference in 2004 we tried to focus on the upcoming use of the Internet for engineering tasks and the opportunities as well as challenges around it Consequently the motto of this year's REV2022 was Artificial Intelligence and Online Engineering In a globally connected world the interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In response to that the general objective of this conference is to contribute and discuss fundamentals applications and experiences in the field of Online and Remote Engineering Virtual Instrumentation and other related new technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4 0 Cyber Security and M2M Smart Objects Another objective of the conference is to discuss guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning MOOCs MOOLs and Open Resources REV2022 was the 19th in a series of annual events concerning the area of Online Engineering It has been organized in cooperation with The British University in Egypt BUE Cairo as a hybrid event from February 28 until March 02 2022 Proceedings Geomechanics and Ground Control , **The Shock and Vibration Digest** , 2003 **Conference Papers Index** , 1980

Cyber-physical Systems and Digital Twins Michael E. Auer, Kalyan Ram B., 2019-07-10 This book constitutes the proceedings of the 16th International Conference on Remote Engineering and Virtual Instrumentation REV held at the BMS College of Engineering Bangalore India on 3-6 February 2019 Today online technologies are at the core of most fields of engineering as well as of society as a whole and are inseparably connected with Internet of Things cyber physical systems collaborative networks and grids cyber cloud technologies service architectures to name but a few Since it was first held in 2004 the REV conference has focused on the increasing use of the Internet for engineering tasks and the problems surrounding it The 2019 conference demonstrated and discussed the fundamentals applications and experiences in the field of online engineering and virtual instrumentation It also presented guidelines for university level courses on these topics in view of the increasing globalization of education and the demand for teleworking remote services and collaborative working environments **Cooperative Design, Visualization, and Engineering** Yuhua Luo, 2021-09-30 This book constitutes the proceedings of the 18th International Conference on Cooperative Design Visualization and Engineering CDVE 2021 held in

October 2021 Due to COVID 19 pandemic the conference was held virtually The 25 full papers and 9 short papers presented were carefully reviewed and selected from 69 submissions The achievement progress and future challenges are reported in areas such as health care industrial design banking IT systems cultural activities support operational maritime cybersecurity assurance emotion communication and social network data analytics

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Three Dimensional Surface Topography Ken J Stout, Liam Blunt, 2000-06-01 This fully illustrated text explains the basic measurement techniques describes the commercially available instruments and provides an overview of the current perception of 3 D topography analysis in the academic world and industry and the commonly used 3 D parameters and plots for the characterizing and visualizing 3 D surface topography It also includes new sections providing full treatment of surface characterization filtering technology and engineered surfaces as well as a fully updated bibliography

Resources in Education, 2001-10 *Online Engineering & Internet of Things* Michael E. Auer, Danilo G. Zutin, 2017-09-14 This book discusses online engineering and virtual instrumentation typical working areas for today s engineers and inseparably connected with areas such as Internet of Things cyber physical systems collaborative networks and grids cyber cloud technologies and service architectures to name just a few It presents the outcomes of the 14th International Conference on Remote Engineering and Virtual Instrumentation REV2017 held at Columbia University in New York from 15 to 17 March 2017 The conference addressed fundamentals applications and experiences in the field of online engineering and virtual instrumentation in the light of growing interest in and need for teleworking remote services and collaborative working environments as a result of the globalization of education The book also discusses guidelines for education in university level courses for these topics

Advanced Virtual Environments and Education Tiago T. Primo, Alex S. Gomes, Fernando Moreira, César Collazos, 2022-05-31 This volume revised versions of the selected papers presented during the Third International Workshop on Advanced Virtual Environments and Education WAVE 2021 held in Fortaleza Brazil in March 2021 The 7 full papers and 4 short papers presented were thoroughly reviewed and selected from the 27 submissions The papers are organized in the following topical sections learning scenarios and grouping methods applications and scenarios phigital CS education and assessment human computer interfaces for education study cases for accessibility and wellbeing

College Admissions Data Sourcebook Northeast Edition Looseleaf 2010-11, 2010-09

Technology, Innovation, Entrepreneurship and Education David Crawford, Jeremy Foss, Nicholas Lambert, Martin Reed, Jennah Kriebel, 2024-06-28 This book constitutes the refereed proceedings of the 4th International Conference on Technology Innovation Entrepreneurship and Education TIE 2023 held in

Cambridge UK in September 2023 The 17 full papers were carefully selected from 44 submissions and cover four areas
international school projects technology in education technology for content creation and future content delivery

Catalogue of Scientific Papers (1800-1900): ser. 1 , 1800-1863 Royal Society (Great Britain),1912

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