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## Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Virtual Bio- Instrumentation

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. With a neat figure, explain Graphical System Design model. (10 Marks)
- b. Compare Graphical Programming and Textual Programming. (10 Marks)

OR

- 2 a. Explain advantages of Labview. (10 Marks)
- b. Discuss Virtual Instrumentation for test control and design. (10 Marks)

### Module-2

- 3 a. Define module. Explain modular programming in Labview. (10 Marks)
- b. With necessary figures, explain the significance of Resolution, Range, gain and code width in measurement system. (10 Marks)

OR

- 4 a. Explain the creation of standalone application in Labview. (10 Marks)
- b. Write a note on ICON and CONNECTOR PANE in Labview. (10 Marks)

### Module-3

- 5 a. Explain Biobench basics. (06 Marks)
- b. Write a note on cardiovascular measurement system. (06 Marks)
- c. Explain computer based DAQ. (08 Marks)

OR

- 6 a. Explain Cardiovascular measurement system. (10 Marks)
- b. Explain Electrophysiology measurement system. (10 Marks)

### Module-4

- 7 a. What is Endotester? Describe training emulator based sense innovative IV pump test using Labview. (10 Marks)
- b. Explain the following endoscopes tests:  
i) Reflective symmetry. ii) Modulation transfer function iii) Relative light loss. (10 Marks)

OR

- 8 a. Discuss the material and methods used in endotester. (14 Marks)
- b. List the types of endoscopes tests. (06 Marks)

### Module-5

- 9 a. Explain the following terms :  
i) Electronic medical record ii) Decision support  
iii) Patient monitoring iv) Dynamic Link libraries. (20 Marks)

OR

- 10 a. Explain the role of Computer in the medicine. (06 Marks)
- b. Write a note on medical imaging. (07 Marks)
- c. Explain Active technology. (07 Marks)

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# Semester I Paper Virtual Instrumentation

**Michael E. Auer, Dominik May**



## **Semester I Paper 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      *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      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 inseparable 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      *Futureproofing Engineering Education for Global Responsibility* Michael E. Auer, Tiia Rüttemann, 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      **SME Technical Paper** Society of Manufacturing Engineers,2005      **The Shock and Vibration Digest** ,2003      *Stereoscopic Displays and Virtual Reality Systems* ,2002      **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      *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      Open Science in Engineering Michael E. Auer,Reinhard Langmann,Thrasyvoulos Tsiatsos,2023-12-31 The REV Conference is the annual conference of the International Association of Online Engineering IAOE together with the Global Online Laboratory Consortium GOLC REV 2023 is the 20th in a series of annual events concerning the area of online engineering cyber physical systems and Internet of things including remote engineering and virtual instrumentation 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 including Cross reality Open Science Internet of Things and Industrial Internet of Things Industry 4 0 Cyber security M2M and smart objects      *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

**Proceedings Geomechanics and Ground Control , Virtual Reality in Education: Breakthroughs in Research and Practice** Management Association, Information

Resources,2019-04-01 Modern technology has infiltrated many facets of society including educational environments Through the use of virtual learning educational systems can become more efficient at teaching the student population and break down cost and distance barriers to reach populations that traditionally could not afford a good education Virtual Reality in Education Breakthroughs in Research and Practice is an essential reference source on the uses of virtual reality in K 12 and higher education classrooms with a focus on pedagogical and instructional outcomes and strategies Highlighting a range of pertinent topics such as immersive virtual learning environments virtual laboratories and distance education this publication is an ideal reference source for pre service and in service teachers school administrators principles higher education faculty K 12 instructors policymakers and researchers interested in virtual reality incorporation in the classroom

**Analyzing Digital Discourse and Human Behavior in Modern Virtual Environments** Baggio, Bobbe Gaines,2016-02-09 Though humans have been communicating through virtual mediators since the invention of the telephone new technologies make the use of virtual communications even more immediate and pervasive than ever before By understanding the theories and models behind virtual communication one can understand the way society has been changed and how it will continue to do so Analyzing Digital Discourse and Human Behavior in Modern Virtual Environments examines the implications of virtual communication and online interaction and the theories and trends associated with them It will discuss and address the differences and challenges that develop when communicating virtually and explore the various influences virtual communication plays in work education and quotidian life This title provides a foundation of emerging trends from which new theories and models of communication can grow This book will become a cherished resource for academics researchers technology developers students and government or institutional leaders

*The Routledge Companion to Aural Skills Pedagogy* Kent Cleland,Paul Fleet,2021-03-18 The Routledge Companion to Aural Skills Pedagogy offers a comprehensive survey of issues practice and current developments in the teaching of aural skills The volume regards aural training as a lifelong skill that is engaged with before during and after university or conservatoire studies in music central to the holistic training of the contemporary musician With an international array of contributors the volume captures diverse perspectives on aural skills pedagogy and enables conversation between different regions It addresses key new developments such as the use of technology for aural training and the use of popular music This book will be an essential resource and reference for all university and conservatoire instructors in aural skills as well as students preparing for teaching careers in music

*Novelties in Intelligent Digital Systems* C. Frasson,K. Kabassi,A. Voulodimos,2021-10-15 Artificial intelligence and

intelligent digital systems have become indispensable to many areas of modern life This book presents the proceedings of the 1st International Conference on Novelties in Intelligent Digital Systems NIDS2021 held in Athens Greece from 30 September to 1 October 2021 The conference took place as a virtual event due to COVID 19 restrictions The NIDS conference lays special emphasis on the novelties of intelligent systems and on the interdisciplinary research which enables supports and enhances Artificial Intelligence AI in software development It promotes high quality research creating a forum for the exploration of challenges and new advances in AI and addresses experts researchers and scholars in the fields of artificial and computational intelligence in systems and in computer sciences in general enabling them to learn more about pertinent strongly related and mutually complementary fields The conference promotes an exchange of ideas reinforcing and expanding the network of researchers academics and market representatives The 30 accepted papers included here have each been reviewed rigorously by two or three reviewers through a double blind process which reflects the commitment of the IIS academic community to make NIDS a top flight selective and high quality conference They are grouped in 6 sections and cover the topics of Learning Extended Reality Data Mining and Machine Learning Health and Environment Brain Assessment and Reasoning and Computer Vision Describing some very significant research and reflecting many interesting new ideas the book will be of interest to all those working in the field      *Virtual and Rapid Manufacturing* Paulo Jorge da Silva Bartolo,Mateus Artur Jorge,Fernando da Conceicao Batista,Henrique Amorim Almeida,Joao Manuel Matias,Joel Correia Vasco,Jorge Brites Gaspar,Mario Antonio Correia,Nuno Carpinteiro Andre,Nuno Fernandes Alves,Paulo Parente Novo,Pedro Goncalves Martinho,Rui Adriano Carvalho,2007-09-17 Collection of 120 peer reviewed papers that were presented at the 3rd International Conference on Advanced Research in Virtual and Rapid Prototyping held in Leiria Portugal in September 2007 Essential reading for all those working on V RP focused on inducing increased collaboration between industry and academia In addition to key      **International Aerospace Abstracts** ,1998



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