

Name: _____ ID: _____ Date: ____/____/____

Experiment # 1:

Introduction to Lab-VIEW

(CLO 1, PLO 5)

Objectives:

At the end of this lab, students will be able to

- Create a project and simulate in Lab VIEW.
- Use different function and control blocks.
- Implement different math and logic operation in Lab VIEW
- Define the different type of inputs and outputs for function and control blocks.
- Optimize the simulation of design project in Lab VIEW.

Introduction/Tutorial:

Lab view can be learned easily by following the given steps

1. How to access LabView.
 2. How to create a new blank VI.
 3. How to create a front panel with the available controls and indicators.
 4. How to create a block diagram that corresponds to the front panel.
 5. How to use the tools palette and its available functions on the toolbar.
 6. How to practice LabVIEW programs at home.
-
1. Accessing LabVIEW 8.5.
 - 1) Logon on to computer with LabVIEW installed.
 - 2) From the **Start** menu, go to **All Programs/ National Instruments/ LabVIEW 8.5** (or 8.2 in cnc24hour2 server). Click **LabVIEW**. (Select **OK** if there is a Security Notice and **Continue** on the **LabVIEW** window).
 2. Creating a new blank VI.

What is a VI?

Measurements And Instrumentation Lab Manual

Roman Wölfel



Measurements And Instrumentation Lab Manual:

Basic Theory and Laboratory Experiments in Measurement and Instrumentation Andrea Cataldo, Nicola Giaquinto, Egidio De Benedetto, Antonio Masciullo, Giuseppe Cannazza, Ilaria Lorenzo, Jacopo Nicolazzo, Maria Teresa Meo, Alessandro De Monte, Gianluca Parisi, Federico Gaetani, 2020-05-19 This textbook offers a unique compendium of measurement procedures for experimental data acquisition After introducing readers to the basic theory of uncertainty evaluation in measurements it shows how to apply it in practice to conduct a range of laboratory experiments with instruments and procedures operating both in the time and frequency domains Offering extensive practical information and hands on tips on using oscilloscopes spectrum analyzers and reflectometric instrumentation the book shows readers how to deal with e g filter characterization operational amplifiers digital and analogic spectral analysis and reflectometry based measurements For each experiment it describes the corresponding uncertainty evaluation in detail Bridging the gap between theory and practice the book offers a unique self contained guide for engineering students and professionals alike It also provides university teachers and professors with a valuable resource for their laboratory courses on electric and electronic measurements *Laboratory Manual for Introductory Electronics Experiments* L. K. Maheshwari, M. M. S. Anand, 1979 Industrial Instrumentation A. Bebris, 1982 **Student Reference Manual for Electronic Instrumentation Laboratories** Stanley Wolf, Richard F. M. Smith, 1990 This book shows students how to become proficient users of electronic measuring instruments and offers a practical understanding of electrical laboratory practices Proceedings of the International Instrumentation Symposium, 1999 *Scientific and Technical Books in Print*, 1972 *Blood* Robert I. Handin, Samuel E. Lux, Thomas P. Stossel, 2003 Following its highly successful and well respected first edition this thoroughly revised edition offers much more Edited and authored by leading authorities in hematology this scientific reference textbook now comes with a CD ROM Additional features include some of the more salient standard and current therapeutics and an easily accessible appendix that provides great reference The CD ROM contains 100 of the most critical illustrations from the text great for quick consultation from your computer **Subject Guide to Books in Print**, 1991 **Texture Measurement of Foods** A. Kramer, A.S. Szczesniak, 2012-12-06 Even before the publication of Special Technical Publication 433 of the American Society for Testing and Materials it became obvious that the brief treatment given to the principles and techniques for sensory measurement and analysis of texture in that volume was all too brief hence a task force of ASTM Committee E 18 was formed to develop an authoritative and comprehensive volume on this most complex and important subject to provide within one cover for the student researcher and the food manufacturer a definition and an understanding of the subject of food texture as well as sensory and objective methods for its measurement This most difficult task appeared to be possible only after the task force had obtained the assistance of specialists in the many disciplines involved and after deciding to limit the dissertation to the measurement of texture of foods only The task was further clarified when Dr Finney proposed an outline of six chapters

beginning with one on definition The second chapter was to be on principles of sensory evaluations the third on sensory measurements the fourth on principles of objective evaluation the fifth on objective measurements and the final concluding chapter on subjective objective analogues The first drafts of these six chapters constituted a symposium on texture presented before a joint session at the 1971 Annual Meeting of the Institute of Food Technology and the American Society for Testing and Materials

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Learning Directory, 1970

Inventory of Federal Energy-related Environment and Safety Research for FY 1979, 1980

Inventory of Federal Energy-related Environment and Safety Research for ..., 1980

Laboratory Manual to Accompany Electronic Instrumentation and Measurement Techniques William David Cooper, William Tait, 1970

Revue roumaine des sciences techniques, 2000

Student Reference Manual for Electronic Instrumentation Laboratories Stanley Wolf, Richard F. M. Smith, 2004 Suitable for courses in electrical engineering laboratory the overall thrust of the text is to teach students to become proficient users of electronic measuring instruments Features include problem sets equipment descriptions and digital method discussions

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