

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

**Yi-Tong Ma**



## **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

**Electrical & Electronic Measurements and Instrumentation** Sudarsan Sahoo, Vipin Chandra Pal, Sandeep Panchal, 2025-06-01

**Measurement and Instrumentation in Engineering** Francis S. Tse, Ivan E. Morse, 1989-07-28 Presenting a mathematical basis for obtaining valid data and basic concepts in measurement and instrumentation this authoritative text is ideal for a one semester concurrent or independent lecture laboratory course Strengthening students grasp of the fundamentals with the most thorough in depth treatment available Measurement and Instrumentation in Engineering discusses in detail basic methods of measurement interaction between a transducer and its environment arrangement of components in a system and system dynamics describes current engineering practice and applications in terms of principles and physical laws enables students to identify and document the sources of noise and loading furnishes basic laboratory experiments in sufficient detail to minimize instructional time and features more than 850 display equations over 625 figures and end of chapter problems This impressive text written by masters in the field is the outstanding choice for upper level undergraduate and beginning graduate level courses in engineering measurement and instrumentation in universities and four year technical institutes for most departments Book jacket

*Measurement of Thermal Radiation Properties of Solids* Joseph C. Richmond, 1963

*Measurement of Thermal Radiation Properties of Solids*, 1963

**Bureau of Medical Devices Standards Survey** United States. Bureau of Medical Devices, 1980

**Measurement of Thermal Radiation of Properties of Solids** Joseph C. Richmond, 1963

*A Guide to Undergraduate Science Course and Laboratory Improvements* National Science Foundation (U.S.). Directorate for Science Education, 1979

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

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## **Table of Contents Measurements And Instrumentation Lab Manual**

1. Understanding the eBook Measurements And Instrumentation Lab Manual
  - The Rise of Digital Reading Measurements And Instrumentation Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Measurements And Instrumentation Lab Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Measurements And Instrumentation Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Measurements And Instrumentation Lab Manual
  - Personalized Recommendations
  - Measurements And Instrumentation Lab Manual User Reviews and Ratings
  - Measurements And Instrumentation Lab Manual and Bestseller Lists
5. Accessing Measurements And Instrumentation Lab Manual Free and Paid eBooks
  - Measurements And Instrumentation Lab Manual Public Domain eBooks
  - Measurements And Instrumentation Lab Manual eBook Subscription Services

- Measurements And Instrumentation Lab Manual Budget-Friendly Options
- 6. Navigating Measurements And Instrumentation Lab Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Measurements And Instrumentation Lab Manual Compatibility with Devices
  - Measurements And Instrumentation Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Measurements And Instrumentation Lab Manual
  - Highlighting and Note-Taking Measurements And Instrumentation Lab Manual
  - Interactive Elements Measurements And Instrumentation Lab Manual
- 8. Staying Engaged with Measurements And Instrumentation Lab Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Measurements And Instrumentation Lab Manual
- 9. Balancing eBooks and Physical Books Measurements And Instrumentation Lab Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Measurements And Instrumentation Lab Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Measurements And Instrumentation Lab Manual
  - Setting Reading Goals Measurements And Instrumentation Lab Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Measurements And Instrumentation Lab Manual
  - Fact-Checking eBook Content of Measurements And Instrumentation Lab Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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