



# Virtual Instrumentation Using LabVIEW

*Jovitha Jerome*

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## **Virtual Instrumentation Using LabVIEW** Jovitha Jerome

This book provides a practical and accessible understanding of the fundamental principles of virtual instrumentation. It explains how to acquire, analyze and present data using LabVIEW (Laboratory Virtual Instrument Engineering Workbench) as the application development environment.

The book introduces the students to the graphical system design model and its different phases of functionality such as design, prototyping and deployment. It explains the basic concepts of graphical programming and highlights the features and techniques used in LabVIEW to create Virtual Instruments (VIs). Using the technique of modular programming, the book teaches how to make a VI as a subVI. Arrays, clusters, structures and strings in LabVIEW are covered in detail. The book also includes coverage of emerging graphical system design technologies for realworld applications. In addition, extensive discussions on data acquisition, image acquisition, motion control and LabVIEW tools are presented.

This book is designed for undergraduate and postgraduate students of instrumentation and control engineering, electronics and instrumentation engineering, electrical and electronics engineering, electronics and communication engineering, and computer science and engineering. It will be also useful to engineering students of other disciplines where courses in virtual instrumentation are offered.

THE BOOK INCLUDES A COMPANION DVD

WHICH CONTAINS:

- 30-day Evaluation Software of LabVIEW
- Demonstration of projects accomplished by engineering students using LabVIEW
- LabVIEW PowerPoint presentations
- Reference material on Virtual Instrumentation and LabVIEW

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