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LabVIEW has been used by millions of engineers and scientists to develop sophisticated test, measurement, and control applications. While LabVIEW provides a variety of features and tools ranging from interactive assistants to configurable user-defined interfaces, it is differentiated by its graphical, general-purpose programming language (known as G) along with an associated integrated compiler, a linker, and debugging tools.

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That is the reason why LabVIEW is extensively used in various industries and a wide variety of applications. LabVIEW offers a great flexibility to create an application or control strategy using powerful graphical language (which also called as G-language) as compared with traditional text-based programming languages like C, C++ and Java.

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LabVIEW is used for 4 main purposes: Automated Manufacturing test of a component/sub-system/system. Automated Product design validation of a component/sub-system/system. Control and/or monitoring of a machine/piece of industrial equipment/process. Condition monitoring of a machine/piece of industrial equipment.

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LabVIEW is an award-winning programming language that allows engineers to create "virtual" instruments on their desktop. This new edition details the powerful features of LabVIEW 8.0. Written in a highly accessible and readable style, LabVIEW Graphical Programming illustrates basic LabVIEW programming techniques, building up to advanced programming concepts.

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Marko Jankovec (August 1st 2011), Graphical Programming Techniques for Effective, Fast and Responsive Execut, Practical Applications and Solutions Using LabVIEW™ Software, Folea Silviu, IntechOpen, DOI: 10.5772/24481. Available from: <https://www.intechopen.com/books/practical-applications-and-solutions-using-labview-software/graphical-programming-techniques-for-effective-fast-and-responsive-execut>.

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LabVIEW offers a graphical programming approach that helps you visualize every aspect of your application, including hardware configuration, measurement data, and debugging. This visualization makes it simple to integrate measurement hardware from any vendor, represent complex logic on the diagram, develop data analysis algorithms, and design custom engineering user interfaces.

[What is LabVIEW?—NI](#)

This book offers an excellent discussion of measurement techniques, particularly oscilloscope probing and current probes. For those learning LabView, we suggest: "LabView for Everyone - Graphical Programming Made Easier", "LabView Graphical Programming - Practical Applications in Instrumentation and Control".

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LabVIEW is ideal for developing software-based versions of real-world instruments,increasing the versatility of available hardware and saving thousands of dollars in equipment costs. Control panels mimic real panels,right down to on-screen lights and switches.

The #1 guide to LabVIEW completely updated for release 6.0!This one-of-a-kind LabVIEW developer's guide gives you virtual instruments--quickly and cheaply! You get powerful tools to build your own virtual instrumentation with National Instruments' popular LabVIEW programming language, from the ground up. Step-by-step instructions, written in a breezy, easy-to-read style with non-programming scientists and engineers in mind give you:" A head start on common test and measurement instrument configurations, with ALL NEW ready-to-run customizable virtual instruments on the CD" Imaging, sound, and instrument driver solutions" Tools for constructing LabVIEW instruments and controls to run everywhere--on desktop PCs, embedded/single-board computers, Linux systems, and more" Complete tools to build your own real-time and embedded virtual instruments using LabVIEW for Linux--includes VMware Workstation so you can build and run an embedded version of Linux on Windows NT/2000" Full coverage of LabVIEW RT with expert guidance on real-time and embedded applicationsOn the bootable CD with embedded Linux operating system: numerous working virtual instruments; all examples built in the book; VMware Workstation for Windows NT/2000 and Linux (30-day trial)

Learn to build effective LabVIEW programs using the detailed information contained in this thoroughly revised resource. This edition updates all content to align with the latest version and adds new chapters that clearly explain object-oriented programming methods, and programming in teams using the cloud. LabVIEW Graphical Programming, Fifth Edition begins with basics for beginners and quickly progresses to intermediate and advanced programming techniques. Written by a pair of LabVIEW experts, this hands-on guide shows how to work with data types, start building your own applications, handle I/O, and use the DAQmx library.

LabVIEW is an award-winning programming language that allows engineers to create "virtual" instruments on their desktop. This new edition details the powerful features of LabVIEW 8.0. Written in a highly accessible and readable style, LabVIEW Graphical Programming illustrates basic LabVIEW programming techniques, building up to advanced programming concepts. New to this edition is study material for the CLAD and CLD exams.

LabVIEW programming techniques, tips, and practices Learn to build effective LabVIEW programs using the detailed information contained in this thoroughly revised resource. This edition updates all content to align with the latest version and adds new chapters that clearly explain object-oriented programming methods, and programming in teams using the cloud. LabVIEW Graphical Programming, Fifth Edition begins with basics for beginners and quickly progresses to intermediate and advanced programming techniques. Written by a pair of LabVIEW experts, this hands-on guide shows how to work with data types, start building your own applications, handle I/O, and use the DAQmx library. You will also find out how to build applications that communicate with enterprise message brokers and with Amazon Web Services' Internet of Things (IoT) message broker. Coverage includes: The origin and evolution of LabVIEW LabVIEW programming fundamentals Data acquisition Object-oriented programming in LabVIEW Frameworks, including the Delacor Queued Message Handler (DQMH®) and Actor Framework Unit testing Enterprise and IoT messaging Programming in teams using the cloud

This is the eBook version of the print title. The illustrations are in color for this eBook version. Drawing on the experiences of a world-class LabVIEW development organization, The LabVIEW Style Book is the definitive guide to best practices in LabVIEW development. Leading LabVIEW development manager Peter A. Blume presents practical guidelines or " rules " for optimizing every facet of your applications: ease of use, efficiency, readability, simplicity, performance, maintainability, and robustness. Blume explains each style rule thoroughly, presenting realistic examples and illustrations. He even presents " nonconforming " examples that show what not to do—and why not. While the illustrations in the print book are in black and white, you can download full-color versions from the publisher web site for free.

For beginning and intermediate LabVIEW programmers, this introductory guide assumes no prior knowledge of LabVIEW. There are in-depth examples in every chapter, and all the answers and source code is provided on the accompanying CD-ROM.

Learning environments continue to change considerably and is no longer confined to the face-to-face classroom setting. As learning options have evolved, educators must adopt a variety of pedagogical strategies and innovative technologies to enable learning. Practical Applications and Experiences in K-20 Blended Learning Environments compiles pedagogical strategies and technologies and their outcomes that have been successfully applied in blended instruction. Highlighting best practices as elementary, secondary, and tertiary educational levels; this book is a vital tool for educators who teach or plan to teach in blended learning environments and for researchers interested in the area of blended education knowledge.

This practical and realistic guide will give you independent recipes, concentrating on advanced level concepts so that you can make your applications. If you are a developer, scientist, or engineer who uses LabVIEW to test, develop and manage advanced level applications, then this is the book for you. Prerequisites include proficiency in C or C++, and workable knowledge of LabVIEW.

Real-time testing and simulation of open- and closed-loop radio frequency (RF) systems for signal generation, signal analysis and digital signal processing require deterministic, low-latency, high-throughput capabilities afforded by user reconfigurable field programmable gate arrays (FPGAs). This comprehensive book introduces LabVIEW FPGA, provides best practices for multi-FPGA solutions, and guidance for developing high-throughput, low-latency FPGA based RF systems. Written by a recognized expert with a wealth of real-world experience in the field, this is the first book written on the subject of FPGAs for radar and other RF applications.

Whether seeking deeper knowledge of LabVIEW®'s capabilities or striving to build enhanced VIs, professionals know they will find everything they need in LabVIEW: Advanced Programming Techniques. Now accompanied by LabVIEW 2011, this classic second edition, focusing on LabVIEW 8.0, delves deeply into the classic features that continue to make LabVIEW one of the most popular and widely used graphical programming environments across the engineering community. The authors review the front panel controls, the Standard State Machine template, drivers, the instrument I/O assistant, error handling functions, hyperthreading, and Express VIs. It covers the introduction of the Shared Variables function in LabVIEW 8.0 and explores the LabVIEW project view. The chapter on ActiveX includes discussion of the MicrosoftTM .NET® framework and new examples of programming in LabVIEW using .NET. Numerous illustrations and step-by-step explanations provide hands-on guidance. Reviewing LabVIEW 8.0 and accompanied by the latest software, LabVIEW: Advanced Programming Techniques, Second Edition remains an indispensable resource to help programmers take their LabVIEW knowledge to the next level. Visit the CRC website to download accompanying software.

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