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LabVIEW Graphical Programming Sep 18 2021 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 applications On 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)

LabVIEW Apr 01 2020 LabVIEW has become one of the preeminent platforms for the development of data acquisition and data analysis programs. *LabVIEW : A Developer's Guide to Real World Integration* explains how to integrate LabVIEW into real-life applications. Written by experienced LabVIEW developers and engineers, the book describes how LabVIEW has been pivotal in solv

LabVIEW Digital Signal Processing Feb 21 2022 LabVIEW Digital Signal Processing teaches engineers how to use the graphical programming language to create virtual instruments to handle to most sophisticated DSP applications. From basic filters to complex sampling mechanisms to signal generators, LabVIEW virtual instruments (VIs) can make DSP work faster and much less expensive – a particular boon to the many engineers working on cutting edge communications systems.

LabVIEW for Electric Circuits, Machines, Drives, and Laboratories Sep 26 2019 Master electric circuits, machines, devices, and power electronics hands on-without expensive equipment. In *LabVIEW for Electric Circuits, Machines, Drives, and Laboratories* Dr. Nesimi Ertugrul uses custom-written LabVIEW Virtual Instruments to illuminate the analysis and operation of a wide range of AC and DC circuits, electrical machines, and drives-including high-voltage/current/power applications covered in no other book. Includes detailed background, VI panels, lab practices, hardware information, and self-study questions - everything you need to achieve true mastery.

Near-Field Antenna Measurements Oct 27 2019 This book is useful both for those who want to get initial information on the measurement of the antenna parameters, and for specialists directly involved in the experimental determination of the antenna parameters from the results of measuring the amplitude-phase distribution in the near zone of the antennas. Currently, the near-field method is the most common one for antenna measurements. In most books, an academic approach is given to the issue under consideration and it is difficult to use them for the direct organization of measurements. In many others, specific narrow issues are considered that are accessible to understanding only by highly qualified engineers/readers. The purpose of this book is to get rid of the above disadvantages by offering the reader a more accessible exposition and formulas by which appropriate computer programs can be written with minimal effort. The contents of this book allow interested specialists to be not only users of the near-field measuring facilities, but also help in understanding the principles of their work. This book is intended for engineers and specialists whose activities are related to experimental testing of radio characteristics of complex antenna systems, especially near-field measurements, and is also useful as a textbook for senior students in the field of “radioelectronics” and “radiophysics.”

Sensors, Nanoscience, Biomedical Engineering, and Instruments Dec 30 2019 In two editions spanning more than a decade, *The Electrical Engineering Handbook* stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has expanded into a set of six books carefully focused on a specialized area or field of study. Each book represents a concise yet definitive collection of key concepts, models, and equations in its respective domain, thoughtfully gathered for convenient access. *Sensors, Nanoscience, Biomedical Engineering, and Instruments* provides thorough coverage of sensors, materials and nanoscience, instruments and measurements, and biomedical systems and devices, including all of the basic information required to thoroughly understand each area. It explores the emerging fields of sensors, nanotechnologies, and biological effects. Each article includes defining terms, references, and sources of further information. Encompassing the work of the world's foremost experts in their respective specialties, *Sensors, Nanoscience, Biomedical Engineering, and Instruments* features the latest developments, the broadest scope of coverage, and new material on multisensor data fusion and MEMS and NEMS.

Information Technology for Manufacturing Systems May 15 2021 The objective of this special collection was to provide a outlet for researchers, educators, engineers and government officials, involved in the general areas of Intelligent Manufacturing, Manufacturing Systems and Processes, Modeling and Simulation, to disseminate their latest research results and exchange views on the future research directions of these fields.

The LabVIEW Style Book Oct 20 2021 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.

Do Smart Adaptive Systems Exist? Jan 11 2021 *Do Smart Adaptive Systems Exist?* is intended as a reference and a guide summarising and focusing on best practices when using intelligent techniques and building systems requiring a degree of adaptation and intelligence. It is therefore not intended as a collection of the most recent research results, but as a practical guide for experts from other areas and industrial users interested in building solutions to their problems using intelligent techniques. One of the main issues covered is an attempt to answer the question of how to select and/or combine suitable intelligent techniques from a large pool of potential solutions. Another attractive feature of the book is that it brings together experts from neural network, fuzzy, machine learning, evolutionary and hybrid systems communities who will provide their views on how these different intelligent technologies have contributed and will contribute to creation of smart adaptive systems of the future.

Where Parallels Intersect May 27 2022

Handbook of Machine Vision Apr 13 2021 With the demands of quality management and process control in an industrial environment machine vision is becoming an important issue. This handbook of machine vision is written by experts from leading companies in this field. It goes through all aspects of image acquisition and image processing. From the viewpoint of the industrial application the authors also elucidate in topics like illumination or camera calibration. Attention is paid to all hardware aspects, starting from lenses and camera systems to camera-computer interfaces. Besides the detailed hardware descriptions the necessary software is discussed with equal profoundness. This includes sections on digital image basics as well as image analysis and image processing. Finally the user is introduced to general aspects of industrial applications of machine vision, such as case studies and strategies for the conception of complete machine vision systems. With this handbook the reader will be enabled not only to understand up to date systems for machine vision but will also be qualified for the planning and evaluation of such technology.

Internet Applications in LabVIEW Aug 30 2022 *Open Road's Best of Belize* is packed with useful suggestions for maximizing a short-term visit to Belize. Go eco-touring in the interior Maya Mountains and Mountain Pine Ridge, explore the wilds in the Crooked Tree sanctuary, navigate the ruins at Altun Ha and Xunantunich, take an excursion to Tikal across the border, or relax along the beautiful beaches and resorts of the Placencia Peninsula. This updated second edition also has great hotel and restaurant recommendations at all price levels, featuring a Spanish-English glossary of phrases and words that will help travelers get around the country with ease.

Scanning Electrochemical Microscopy Jun 27 2022 *Scanning Electrochemical Microscopy* describes the theory and operating principles of scanning electrochemical microscopy (SECM), including instrumentation, tip preparation, imaging techniques and potentiometric probes. The book explores applications relevant to electron transfer reactions, reaction kinetics, chemical events at interfaces, biological

QuickTime for .NET and COM Developers Aug 06 2020 At the heart of Apple's hugely popular iLife software suite—iMovie, iPhoto, iDVD, GarageBand, and iTunes—is QuickTime, the powerful media engine that drives elegant applications for managing movies, images, and audio files. The enduring success of QuickTime is in no small part attributable to its component

architecture. This key feature has allowed it to embrace emerging digital media technologies and standards one by one as they have appeared over the 12 or so years since its launch. None of the competing technologies even comes close, let alone on both Mac OS X and Windows. QuickTime for .NET and COM Developers is the first guide to QuickTime for developers using popular RAD tools such as Visual Basic .NET, C#, and Visual Basic 6. A general introduction to QuickTime is followed by a detailed explanation of the QuickTime architecture from a .NET and COM perspective, liberally accompanied by code snippets. A number of implementation examples illustrate key QuickTime features, ranging from a simple movie player to a sophisticated interactive application. Also covered is QuickTime scripting in both QuickTime Player (using Windows Scripting) and in Microsoft Office applications (using VBA). Brief guides to developing with QuickTime in Delphi and ATL/WTL are also included. Part of the official Quicktime Developer Series, publishing the finest books on QuickTime in cooperation with Apple. * The first book on QuickTime for .NET and COM application and scripting developers * Written by one of the architects of Apple's QuickTime ActiveX/COM control * Offers numerous sample applications and code examples

Data Acquisition Jul 29 2022 The book is intended to be a collection of contributions providing a bird's eye view of some relevant multidisciplinary applications of data acquisition. While assuming that the reader is familiar with the basics of sampling theory and analog-to-digital conversion, the attention is focused on applied research and industrial applications of data acquisition. Even in the few cases when theoretical issues are investigated, the goal is making the theory comprehensible to a wide, application- oriented, audience.

Soft Computing Applications Feb 09 2021 These volumes constitute the Proceedings of the 6th International Workshop on Soft Computing Applications, or SOFA 2014, held on 24-26 July 2014 in Timisoara, Romania. This edition was organized by the University of Belgrade, Serbia in conjunction with Romanian Society of Control Engineering and Technical Informatics (SRAIT) - Arad Section, The General Association of Engineers in Romania - Arad Section, Institute of Computer Science, Iasi Branch of the Romanian Academy and IEEE Romanian Section. The Soft Computing concept was introduced by Lotfi Zadeh in 1991 and serves to highlight the emergence of computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability, robustness and low solution cost. Soft computing facilitates the use of fuzzy logic, neurocomputing, evolutionary computing and probabilistic computing in combination, leading to the concept of hybrid intelligent systems. The combination of such intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains. The conference papers included in these proceedings, published post conference, were grouped into the following area of research: · Image, Text and Signal Processing · Intelligent Transportation Modeling and Applications Biomedical Applications Neural Network and Applications Knowledge-Based Technologies for Web Applications, Cloud Computing, Security, Algorithms and Computer Networks Knowledge-Based Technologies Soft Computing Techniques for Time Series Analysis Soft Computing and Fuzzy Logic in Biometrics Fuzzy Applications Theory and Fuzzy Control Business Process Management Methods and Applications in Electrical Engineering The volumes provide useful information to professors, researchers and graduated students in area of soft computing techniques and applications, as they report new research work on challenging issues.

Simulation of Fluid Power Systems with Simcenter Amesim Mar 13 2021 This book illustrates numerical simulation of fluid power systems by LMS Amesim Platform covering hydrostatic transmissions, electro hydraulic servo valves, hydraulic servomechanisms for aerospace engineering, speed governors for power machines, fuel injection systems, and automotive servo systems It includes hydrostatic transmissions, automotive fuel injection, hydropower speed units governor, aerospace servo systems along with case studies of specified companies Aids in predicting and optimizing the static and dynamic performances related to the systems under study

A Software Engineering Approach to LabVIEW Dec 02 2022 Create more robust, more flexible LabVIEW applications--through software design principles! Writing LabVIEW software to perform a complex task is never easy--especially when those last-minute feature requests cause a complexity explosion in your system, forcing you to rework much of your code! Jon Conway and Steve Watts offer a better solution: LCOD-LabVIEW Component Oriented Design--which, for the first time, applies the theories and principles of software design to LabVIEW programming. The material is presented in a lighthearted, engaging manner that makes learning enjoyable, even if you're not a computer scientist. LCOD software engineering techniques make your software more robust and better able to handle complexity--by making it simpler! Even large, industrial-grade applications become manageable. Design to embrace flexibility first, making changes and bug fixes much less painful Pragmatic discussion of the authors' tried and tested techniques, written by--and for--working programmers Covers design principles; LCOD overview, implementation, and complementary techniques; engineering essentials; style issues; and more Complete with practical advice on requirements gathering, prototyping, user interface design, and rich with examples Work through an example LCOD project (all code included on companion Web site) to tie the lessons together This book is intended for test engineers, system integrators, electronics engineers, software engineers, and other intermediate to advanced LabVIEW programmers. None of the methods discussed are complex, so users can benefit as soon as they are proficient with the syntax of LabVIEW.Go to the companion Web site located at <http://author.phptr.com/watts/> for

full source code and book updates.

LabView Dec 10 2020 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 Microsoft™ .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.

The Electrical Engineering Handbook - Six Volume Set Nov 28 2019 In two editions spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has grown into a set of six books carefully focused on specialized areas or fields of study. Each one represents a concise yet definitive collection of key concepts, models, and equations in its respective domain, thoughtfully gathered for convenient access. Combined, they constitute the most comprehensive, authoritative resource available. Circuits, Signals, and Speech and Image Processing presents all of the basic information related to electric circuits and components, analysis of circuits, the use of the Laplace transform, as well as signal, speech, and image processing using filters and algorithms. It also examines emerging areas such as text to speech synthesis, real-time processing, and embedded signal processing. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, electromagnetics, light waves, and radar, supplying all of the basic information required for a deep understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics. Sensors, Nanoscience, Biomedical Engineering, and Instruments provides thorough coverage of sensors, materials and nanoscience, instruments and measurements, and biomedical systems and devices, including all of the basic information required to thoroughly understand each area. It explores the emerging fields of sensors, nanotechnologies, and biological effects. Broadcasting and Optical Communication Technology explores communications, information theory, and devices, covering all of the basic information needed for a thorough understanding of these areas. It also examines the emerging areas of adaptive estimation and optical communication. Computers, Software Engineering, and Digital Devices examines digital and logical devices, displays, testing, software, and computers, presenting the fundamental concepts needed to ensure a thorough understanding of each field. It treats the emerging fields of programmable logic, hardware description languages, and parallel computing in detail. Systems, Controls, Embedded Systems, Energy, and Machines explores in detail the fields of energy devices, machines, and systems as well as control systems. It provides all of the fundamental concepts needed for thorough, in-depth understanding of each area and devotes special attention to the emerging area of embedded systems. Encompassing the work of the world's foremost experts in their respective specialties, The Electrical Engineering Handbook, Third Edition remains the most convenient, reliable source of information available. This edition features the latest developments, the broadest scope of coverage, and new material on nanotechnologies, fuel cells, embedded systems, and biometrics. The engineering community has relied on the Handbook for more than twelve years, and it will continue to be a platform to launch the next wave of advancements. The Handbook's latest incarnation features a protective slipcase, which helps you stay organized without overwhelming your bookshelf. It is an attractive addition to any collection, and will help keep each volume of the Handbook as fresh as your latest research.

[World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany](#) Nov 01 2022 Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering – the triennial scientific meeting of the IUPESM - is the world's leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in-depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of

the dimension of the congress and invite you to join us in Munich! Olaf Dössel Congress President Wolfgang C.

VIRTUAL INSTRUMENTATION USING LABVIEW Sep 30 2022 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 real-world 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. Key Features : Builds the concept of virtual instrumentation by using clear-cut programming elements. Includes a summary that outlines important learning points and skills taught in the chapter. Offers a number of solved problems to help students gain hands-on experience of problem solving. Provides several chapter-end questions and problems to assist students in reinforcing their knowledge.

Handbook of Machine and Computer Vision Jun 03 2020 The second edition of this accepted reference work has been updated to reflect the rapid developments in the field and now covers both 2D and 3D imaging. Written by expert practitioners from leading companies operating in machine vision, this one-stop handbook guides readers through all aspects of image acquisition and image processing, including optics, electronics and software. The authors approach the subject in terms of industrial applications, elucidating such topics as illumination and camera calibration. Initial chapters concentrate on the latest hardware aspects, ranging from lenses and camera systems to camera-computer interfaces, with the software necessary discussed to an equal depth in later sections. These include digital image basics as well as image analysis and image processing. The book concludes with extended coverage of industrial applications in optics and electronics, backed by case studies and design strategies for the conception of complete machine vision systems. As a result, readers are not only able to understand the latest systems, but also to plan and evaluate this technology. With more than 500 images and tables to illustrate relevant principles and steps.

Physical Modelling in Geotechnics, Two Volume Set Mar 01 2020 This book results from the 7th ICPMG meeting in Zurich 2010 and covers a broad range of aspects of physical modelling in geotechnics, linking across to other modelling techniques to consider the entire spectrum required in providing innovative geotechnical engineering solutions. Topics presented at the conference: Soil – Structure – Interaction; Natural Hazards; Earthquake Engineering; Soft Soil Engineering; New Geotechnical Physical; Modelling Facilities; Advanced Experimental Techniques; Comparisons between Physical and Numerical Modelling Specific Topics: Offshore Engineering; Ground Improvement and Foundations; Tunnelling, Excavations and Retaining Structures; Dams and slopes; Process Modelling; Geoenvironmental Modelling; Education

No Code Required Aug 25 2019 No Code Required presents the various design, system architectures, research methodologies, and evaluation strategies that are used by end users programming on the Web. It also presents the tools that will allow users to participate in the creation of their own Web. Comprised of seven parts, the book provides basic information about the field of end-user programming. Part 1 points out that the Firefox browser is one of the differentiating factors considered for end-user programming on the Web. Part 2 discusses the automation and customization of the Web. Part 3 covers the different approaches to proposing a specialized platform for creating a new Web browser. Part 4 discusses three systems that focus on the customized tools that will be used by the end users in exploring large amounts of data on the Web. Part 5 explains the role of natural language in the end-user programming systems. Part 6 provides an overview of the assumptions on the accessibility of the Web site owners of the Web content. Lastly, Part 7 offers the idea of the Web-active end user, an individual who is seeking new technologies. The first book since Web 2.0 that covers the latest research, development, and systems emerging from HCI research labs on end user programming tools Featuring contributions from the creators of Adobe's Zoetrope and Intel's Mash Maker, discussing test results, implementation, feedback, and ways forward in this booming area

LabVIEW GUI Apr 25 2022 This guide describes how to implement modern GUI (Graphic'ser Interface) methodologies within the LabVIEW application. The book provides interface design strategies and basic graphic design principles, and includes over 100 step-by-step LabVIEW GUI Code examples.

Learning with LabVIEW 8 Dec 22 2021 The defacto industry standard for test, measurement, and automation software solutions. LabVIEW 8 delivers the graphical programming capabilities that allow users to design programmable software solutions to problems and lab experiments. This version includes new chapter covering LabVIEW MathScript and an upgrade to Chapter 11 Analysis to reflect 150 new and enhanced analysis VIs. A new Appendix has been added to include exciting

innovative developments with Sound Card API, LabVIEW Project and Shared Variables For electrical engineers, and those involved in measurement and instrumentation.

Selected papers from the 2019 IEEE International Workshop on Metrology for AeroSpace Aug 18 2021 This book is devoted to recent developments of instrumentation and measurement techniques applied to the aerospace field. It includes 23 selected papers from the 2019 IEEE International Workshop on Metrology for AeroSpace. Measurements are essential for obtaining a deeper knowledge of a phenomenon or an asset, as well as for making proper decisions and proposing new and efficient solutions, and this is especially true in environments as complex as aerospace. The research contributions included in the book can raise the interest of a wide group of researchers, operators and decision-makers from metrology and aerospace fields by presenting the most innovative solutions in this field from the scientific and technological points of view.

Integrated High Resolution Imaging Radar and Decision Support System for the Rehabilitation of WATER PIPElines Oct 08 2020 Many EU cities are experiencing increasing problems with their water pipeline infrastructure. The cost of replacing these old, worn-out systems, if left to deteriorate beyond repair, is astronomical and clearly beyond the resources of many communities. Replacement, however, is not the only choice as many of these systems can be rehabilitated at 30 to 70 percent of the cost of replacement. Accordingly, resources are now increasingly being allocated to address pipeline rehabilitation management issues. Due to the emphasis on sustainable management, risk-based approaches for the rehabilitation management of the water supply network need to be developed. Rehabilitation decisions should be based, inter alia, on inspection and evaluation of the pipeline conditions. Yet, utilities cannot locate a number of their old pipes and current inspection technologies typically do not provide the needed detailed information on pipeline damage. The objectives of this book are to describe the research work carried out in the framework of WATERPIPE project aiming: To develop a novel, high-resolution imaging ground penetrating radar for the detection of pipes, leaks and damages and the imaging of the damaged region and evaluate it at a test site To produce an integrated system that will contain the equipment in "1" and a Decision Support System (DSS) for the rehabilitation management of the underground water pipelines that will use input from the inspections to assess, probabilistically, the time-dependent leakage and structural reliability of the pipelines and a risk-based methodology for rehabilitation decisions that considers the overall risk, including financial, social and environmental criteria To field test the equipment and the DSS

Byte Jul 05 2020

LabVIEW Jan 03 2023 The graphical nature of LabVIEW makes it ideal for test and measurement applications and its use brings significant improvements in productivity over conventional programming languages. However, comprehensive treatments of the more advanced topics have been scattered and difficult to find-until now. LabVIEW Advanced Programming Techniques of

NASA Tech Briefs May 03 2020

The LabVIEW Student Edition Mar 25 2022 This text should make it easy to build custom systems for data acquisition, instruments control, data analysis, and data presentation. It offers a programming methodology in which users graphically assemble software modules called Virtual Instruments (VIs). LabVIEW can be used in a variety of industries and applications including: simulating heart functions, controlling an ice-cream making process, detecting hydrogen gas leaks on the space shuttle, modelling power systems to analyze power quality, and testing electronic circuit boards in computer and electronic devices.

LabVIEW Graphical Programming, Fifth Edition Jan 23 2022 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 DAQmix 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

Maritime Engineering and Technology Nov 08 2020 Maritime Engineering and Technology includes the papers from the 1st International Conference on Maritime Technology and Engineering (MARTECH 2011, Lisbon, Portugal, 10-12 May 2011). MARTECH 2011 was held to commemorate 100 years of the Instituto Superior Tico (IST) in Lisbon, and the contributions in the present volume reflect the

Applications in Electronics Pervading Industry, Environment and Society Jul 17 2021 This book provides a thorough overview of cutting-edge research on electronics applications relevant to industry, the environment, and society at large. It covers a broad spectrum of application domains, from automotive to space and from health to security, while devoting special

attention to the use of embedded devices and sensors for imaging, communication and control. The book is based on the 2018 ApplePies Conference, held in Pisa, Italy in September 2018, which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future. Areas addressed by the conference included information communication technology; biotechnology and biomedical imaging; space; secure, clean and efficient energy; the environment; and smart, green and integrated transport. As electronics technology continues to develop apace, constantly meeting previously unthinkable targets, further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities. This book, written by industrial and academic professionals, represents a valuable contribution in this endeavor.

The Biotechnology Software Directory Jun 15 2021 Directory of scientific software. Each entry includes producer information, a summary of the program, system requirements, and price.

LabVIEW Graphical Programming Nov 20 2021 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.

The Windows Serial Port Programming Handbook Jan 29 2020 The popularity of serial communications demands that additional serial port interfaces be developed to meet the expanding requirements of users. The Windows Serial Port Programming Handbook illustrates the principles and methods of developing various serial port interfaces using multiple languages. This comprehensive, hands-on, and practical guide

Next-Generation High-Speed Satellite Interconnect Sep 06 2020 This book introduces the space community to the novel SpaceFibre protocol, developed under the guidance of the European Space Agency (ESA) as the forthcoming, high speed (Gbps) communication protocol for satellite on-board communication. Since SpaceFibre is expected to follow the success of its predecessor SpaceWire protocol (Mbps), the authors provide a system-level perspective for the end-user willing to adopt this latest technology for future space missions. The authors provide a complete view of the SpaceFibre protocol, together with an analysis of all the necessary hardware and software components to integrate this technology onboard a satellite. The text guides potential system adopters toward understanding the protocol, analyzing strengths, weaknesses and performances. Practical design examples and prototype performance measurements in reference scenarios are also included.