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and chapter
exercises; and
increased coverage
of factors that affect
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edition's expanded

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use of applications
make this book ideal
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students and
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health care, political
science, sociology,
and biology. A basic
understanding of
correlation is

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assumed and an understanding of the matrices used in SEM models is encouraged.

Transform physical phenomena into computer-acceptable data using a truly object-oriented language

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Create your own data acquisition system independently using LabVIEW and build interactive dashboards Collect data using National Instrument's and third-party, open source, affordable hardware Step-by-

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step real-world
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various tools that
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fundamentals of
data acquisition
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For If you are an
engineer, scientist,
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benefit from the content and examples illustrated in this book. A working knowledge of precision testing, measurement instruments, and electronics, as well as a background in computer fundamentals and

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programming is expected. What You Will Learn Create a virtual instrument which highlights common functionality of LabVIEW Get familiarized with common buses such as Serial, GPIB, and SCPI

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complete with an
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LabVIEW's intuitive graphical interface eliminates the steep learning curve associated with text-based languages such as C or C++. LabVIEW is a proven and powerful integrated development environment to

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interact with measurement and control hardware, analyze data, publish results, and distribute systems. This hands-on tutorial guide helps you harness the power of LabVIEW for data acquisition. This book begins

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with a quick introduction to LabVIEW, running through the fundamentals of communication and data collection. Then get to grips with the auto-code generation feature of LabVIEW using its GUI interface.

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You will learn how to use NI-DAQmax Data acquisition VIs, showing how LabVIEW can be used to appropriate a true physical phenomenon (such as temperature, light, and so on) and convert it to an appropriate data

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type that can be manipulated and analyzed with a computer. You will also learn how to create Distribution Kit for LabVIEW, acquainting yourself with various debugging techniques offered by LabVIEW to help

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you in situations where bugs are not letting you run your programs as intended. By the end of the book, you will have a clear idea how to build your own data acquisition system independently and much more. Style

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and approach A
hands-on practical
guide that starts by
laying down the
software and
hardware
foundations
necessary for
subsequent data
acquisition-
intensive chapters.
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full of specific examples with software screenshots and schematic diagrams to guide you through the creation of each virtual instrument.

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LabWindows/CVI, C is

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the programming language used to build data acquisition and instrumentation control applications;

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running project
applications
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The British National
Bibliography
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environment. In this
follow-up to his
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Khalid presents the sophisticated techniques that allow experienced users to make the most of this virtual instrumentation powerhouse. The flexibility of LabWindows/CVI software means that you can build virtual instrumentation using Microsoft Visual Basic and Visual C++ as well

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3-D data plotting with
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Communications with
VXI devices using
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using function panels

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and instrument drivers

The material is organized to present information with maximum clarity, keeping the reader in mind. For convenience, each chapter concludes with an explanation of the purpose and prototype of the library functions under discussion. Advanced Topics in

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LabWindows/CVI will give students and working professionals the tools to build and automate sophisticated virtual instrumentation for a world of applications.

This book presents the proceedings of the 2020 International Conference on Intelligent Systems Applications in Multi-

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modal Information
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science and engineering.
It addresses a number of
broad themes, including
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agent-based and multi-

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agent systems for health and education informatics, which inspire the development of intelligent information technologies. The contributions cover a wide range of topics such as AI applications and innovations in health and education informatics; data and knowledge

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management; multi-modal application management; and web/social media mining for multi-modal informatics. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals, and a useful reference guide for newcomers to the

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Paper

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***The practical,
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compact tutorial
gives you core
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civilizations is
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practical and
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understanding of the

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