

Pc Interfacing And Data Acquisition

Kevin James

Pc Interfacing And Data Acquisition:

PC Interfacing and Data Acquisition Kevin James, 2000-07-17 A practical guide to programming for data acquisition and measurement must have info in just the right amount of depth for engineers who are not programming specialists This book offers a complete guide to the programming and interfacing techniques involved in data collection and the subsequent measurement and control systems using an IBM compatible PC It is an essential guide for electronic engineers and technicians involved in measurement and instrumentation DA C programmers and students aiming to gain a working knowledge of the industrial applications of computer interfacing A basic working knowledge of programming in a high level language is assumed but analytical mathematics is kept to a minimum Sample listings are given in C and can be downloaded from the Newnes website Practical guidance on PC based acquisition Written for electronic engineers and software engineers in industry not academics or computer scientists A textbook with strong foundations in industry Interfacing for Data Acquisition and Process Control Sanjay Gupta, Jai P. Gupta, 1994 PC Interfacing for Data Acquisition and Process Control Sanjay Gupta, 1994-01-01 PC Interfacing for Laboratory Data Acquisition & Process Control Sanjay Gupta, 1989-01-01 Computer Interfacing William H. Rigby, Terry Dalby, 1995 Written for courses in Microcomputer Computer Applications Computer Interfacing or Peripherals The text applies personal computers to applications in electronics Book can be widely used in the lab This combination text laboratory manual explores the use of personal computers e g interfacing digital I O analog I O data acquisition etc to control external electrical devices such as pumps fans and other devices It describes the use of standard off the shelf interfacing boards the application of common personal computers and specific practical interfacing and control applications Handbook of Networked and Embedded Control Systems Dimitrios Hristu-Varsakelis, William S. Levine, 2007-11-14 The vast majority of control systems built today are embedded that is they rely on built in special purpose digital computers to close their feedback loops Embedded systems are common in aircraft factories chemical processing plants and even in cars a single high end automobile may contain over eighty different computers The design of embedded controllers and of the intricate automated communication networks that support them raises many new questions practical as well as theoretical about network protocols compatibility of operating systems and ways to maximize the effectiveness of the embedded hardware This handbook the first of its kind provides engineers computer scientists mathematicians and students a broad comprehensive source of information and technology to address many questions and aspects of embedded and networked control Separated into six main sections Fundamentals Hardware Software Theory Networking and Applications this work unifies into a single reference many scattered articles websites and specification sheets Also included are case studies experiments and examples that give a multifaceted view of the subject encompassing computation and communication considerations PC Based Instrumentation and Control Mike Tooley, 2013-06-17 PC Based Instrumentation and Control is a guide to implementing computer control instrumentation and

data acquisition using a standard PC and some of the more traditional computer languages Numerous examples of configurations and working circuits as well as representative software make this a practical hands on guide to implementing PC based testing and calibration systems and increasing efficiency without compromising quality or reliability Guidance is given on modifying the circuits and software routines to meet the reader's specific needs. The third edition includes updated coverage of PC hardware and bus systems a new chapter on virtual instruments and an introduction to programming and software development in a modern 32 bit environment Additional examples have been included with source code and executables available for download from the companion website www key2control com **Encyclopedia of Computer Science and Technology** Harry Henderson, 2009 Presents an illustrated A Z encyclopedia containing approximately 600 entries on computer and technology related topics Physics and Engineering of Radiation Detection Syed Naeem Ahmed, 2007-04-12 Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications It covers the origins and properties of different kinds of ionizing radiation their detection and measurement and the procedures used to protect people and the environment from their potentially harmful effects It details the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content It provides useful formulae and explains methodologies to solve problems related to radiation measurements With abundance of worked out examples and end of chapter problems this book enables the reader to understand the underlying physical principles and their applications Detailed discussions on different detection media such as gases liquids liquefied gases semiconductors and scintillators make this book an excellent source of information for students as well as professionals working in related fields Chapters on statistics data analysis techniques software for data analysis and data acquisition systems provide the reader with necessary skills to design and build practical systems and perform data analysis Covers the modern techniques involved in detection and measurement of radiation and the underlying physical principles Illustrates theoretical and practical details with an abundance of practical worked out examples Provides practice problems at the end of each chapter Toward Brain-computer Interfacing Guido Dornhege, 2007 This volume presents a timely overview of the latest BCI research with contributions from many of the important research groups in the field

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