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Data Acquisition for Sensor Systems H.R. Taylor, 2013-03-14 Data acquisition is concerned with taking one or more analogue signals and converting them to digital form with sufficient accuracy and speed to be ready for processing by a computer. The increasing use of computers makes this an expanding field and it is important that the conversion process is done correctly because information lost at this stage can never be regained no matter how good the computation. The old saying garbage in garbage out is very relevant to data acquisition and so every part of the book contains a discussion of errors where do they come from how large are they and what can be done to reduce them. The book aims to treat the data acquisition process in depth with less detailed chapters on the fundamental principles of measurement sensors and signal conditioning. There is also a chapter on software packages which are becoming increasingly popular. This is such a rapidly changing topic that any review of available programs is bound to be out of date before the book reaches the readers. For this reason I have described the data handling which is available in various types of program and left it to the reader to select from whatever is on the market at the time. Ultrasonic Measurements and Technologies Stefan Kocis, Zdenko

Figura, 2012-12-06 An impulse for writing this book has originated from the effort to summarize and publicize the acquired results of a research team at the Department of Automation of the Faculty of Electrical Engineering and Informatics Slovak Technical University in Bratislava. The research team has been involved for a long time with control problems for machine production mechanisms and in recent approximately 15 years its effort was aimed mostly at the control of electrical servosystems of robots. Within this scope the members of the authors staff solved the State Research Task Ultrasonic sensing of the position of a robot hand which was coordinated by the Institute of Technical Cybernetics of the Slovak Academy of Sciences in Bratislava. The problem was solved in a complex way i.e. from a conceptual design of the measurement through the measurement and evaluation system up to connection to the control system of a robot. Compensation of the atmospheric influence on the precision of measurement as well as on the electroacoustical transducers were important parts of the solution. The solution was aimed at using the ultrasonic pulse method which enables the measurement of absolute 3D position coordinates contrary to the relative position measurements by the incremental pickups which are standard robotic equipment. *Human-Computer Systems Interaction* Zdzisław S. Hippe, Juliusz L. Kulikowski, Teresa Mroczek, 2017-08-18

This book presents a fascinating state of the art collection of papers on the recent advances in human computer systems interaction HCSI. It offers a detailed description of the status quo in the HCSI field and also provides a solid base for further development and research in the area. The content is divided into three parts I Aid systems for disabled people II Decision making support systems and III Information and communication systems. It is intended for a wide audience of readers who are not necessarily experts in computer science machine learning or knowledge engineering but are interested in human computer systems interaction and the combination of general and specific papers offers readers deeper insights than might

be gleaned from research papers or talks at conferences It touches on all the current hot topics in the field of H CSI

Optical Fiber Sensor Technology K. T. V. Grattan,B. T. Meggitt,1999-04-30 This book builds on the foundation laid by Optical Fiber Sensor Technology Volumes I and II In those volumes the material covered encompassed the fundamentals and underlying principles of the subject and the progress in devices and their associated technology which has taken place in recent years Optical Fiber Sensor Technology Volume III concentrates on the applications of the technology and systems that rely upon it with a particular emphasis upon physical sensors Edited by two scientists with a wide knowledge of the field and the community the book brings together leading academics and practitioners in a comprehensive and incisive treatment of the subject This is an essential reference both for researchers working and teaching in optical fiber sensor technology and for industrial users who need to be aware of current developments in optical fiber sensor devices and new areas of the associated technology

Optical Fiber Sensor Technology L.S. Grattan,B.T. Meggitt,1997-12-31 Progress in optical fiber sensors The field of optical fiber sensor technology is one that continues to expand and develop at a rate that could barely have been predicted a few years ago The wealth of publications appearing in the technical literature and the burgeoning number of papers presented at the now well established series of national and international conferences which are attended by a wide selection of technically qualified optoelectronics professionals gives a clear indication of both the range and scale of the devices and applications now seen in the subject Such a rapid expansion makes it very difficult for the scientist and engineer under pressure to be both informed and effective for an employer to attend all these meetings selectively read the appropriate literature and be able quickly to gain the knowledge in those specific areas which will give the best advantage for the work in hand To that end this volume has been planned and carefully designed to provide an essential overview and detailed specific information on those novel and exciting aspects of optical fiber sensor technology that have recently emerged with particular focus on the devices and the exciting applications of this part of optoelectronic technology in the vast international measurement and instrumentation area

Electromagnetic Waves Carlo G. Someda,1998-05-12 This book provides a comprehensive treatment of electromagnetic waves The author s approach is thoroughly modern and unlike many others this text offers a unified view of electromagnetic waves and their applications in telecommunications radar and photonics The extensive coverage of Electromagnetic Waves begins with Maxwell s equations and takes students on the journey from the wave and Helmholtz equations through polarization plane waves and wave beams and packets to antennas transmission lines and waveguides Completing the treatment are chapters devoted to diffraction and an introduction to the theory of coherence The author strikes an effective balance of the teach through concepts and teach by example approaches The book is filled with exercises current applications and exercises that solidify students understanding and bring relevance to the material It forms an outstanding text for senior undergraduates and graduate level students in electrical engineering and physics

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costs and need to develop smaller deeper and more remote fields have continued to spur the application of multiphase technology However the uncertainty of adopting new technology will only be overcome with knowledge and expertise by field use or by force of circumstances where it is seen to be the only viable method Ultrasonic Measurements and Technologies Stefan Kocis,Zdenko Figura,2014-02-27 An impulse for writing this book has originated from the effort to summarize and publicise the acquired results of a research team at the Department of Automation of the Faculty of Electrical Engineering and Informatics Slovak Technical University in Bratislava The research team has been involved for a long time with control problems for machine production mechanisms and in recent approximately 15 years its effort was aimed mostly at the control of electrical servosystems of robots Within this scope the members of the authors staff solved the State Research Task Ultrasonic sensing of the position of a robot hand which was coordinated by the Institute of Technical Cybernetics of the Slovak Academy of Sciences in Bratislava The problem was solved in a complex way i e from a conceptual design of the measurement through the measurement and evaluation system up to connection to the control system of a robot Compensation of the atmospheric influence on the precision of measurement as well as on the electroacoustical transducers were important parts of the solution The solution was aimed at using the ultrasonic pulse method which enables the measurement of absolute 3D position coordinates contrary to the relative position measurements by the incremental pickups which are standard robotic equipment **Acoustics Abstracts** ,1998 Petrophysics ,2006 *Materials Evaluation* ,1998-07 *Government Reports Announcements & Index* ,1986 **Optical Engineering** ,2004 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology Fluid Flow Measurements Abstracts ,1985 Ultrasonics Dale Enslinger,Leonard J. Bond,2011-09-19 The book provides a unique and comprehensive treatment of the science technology and applications for industrial and medical ultrasonics including low and high power implementations The discussion of applications is combined with the fundamental physics the reporting of the sensors transducers and systems for the full spectrum of industrial nondestructive testing and medical biomedical uses It includes citations of numerous references and covers both mainstream and the more unusual and obscure applications of ultrasound **Japanese Technical Periodical Index** ,1987 *Japanese Technical Abstracts* ,1988

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