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Robotics Product Database 1988

Vector Control of AC Drives Ion Boidea 1992-08-26 Alternating current (AC) induction and synchronous machines are frequently used in variable speed drives with applications ranging from computer peripherals, robotics, and machine tools to railway traction, ship propulsion, and rolling mills. The notable impact of vector control of AC drives on most traditional and new technologies, the multitude of practical configurations proposed, and the absence of books treating this subject as a whole with a unified approach were the driving forces behind the creation of this book. Vector Control of AC Drives examines the remarkable progress achieved worldwide in vector control from its introduction in 1969 to the current technology. The book unifies the treatment of vector control of induction and synchronous motor drives using the concepts of general flux orientation and the feed-forward (indirect) and feedback (direct) voltage and current vector control. The concept of torque vector control is also introduced and applied to all AC motors. AC models for drive applications developed in complex variables (space phasors), both for induction and synchronous motors, are used throughout the book. Numerous practical implementations of vector control are described in considerable detail, followed by representative digital simulations and test results taken from the recent literature. Vector Control of AC Drives will be a welcome addition to the reference collections of electrical and mechanical engineers involved with machine and system design.

Electric Drives and Their Controls Richard M. Crowder 1995 This work explains how to size, select and implement an industrial drive system. The author offers a practical but structured approach which places particular emphasis on smaller drive systems. Examples are given from the machine tool and robotics industries.

Indian Trade Journal 2006

Modern Practice in Servo Design Derek Robert Wilson 1970 Conceptualizes the generalized theoretical methods & techniques of analyzing & designing a servomechanism to form a control system engineer's 'Kit of Tools'. Describes the application of these 'tools' to the practical design & implementation of high performance power servomechanisms.

The Effect of Non-sinusoidal Impressed Voltages on A.C. Servo Motors Charles W. Busey 1955

International CAD/CAM/CAE Hardware Products Database 1990

Introduction to Robotics in CIM Systems James A. Reh 2003 Written from a manufacturing perspective, this book takes readers step-by-step through the theory and application techniques of designing and building a robot-driven automated work cell from selection of hardware through programming of the devices to economic justification of the project. All-inclusive in approach, it covers not only robot automation, but all the other technology needed in the automated work cell to integrate the robot with the work environment and with the enterprise data base. Robot and other required automation hardware and software are introduced in the order in which they would be selected in an actual industrial automation design. Includes system troubleshooting guides, case studies problems, and worked example problems. Robot Classification. Automated Work Cells and CIM Systems. End-of-Arm Tooling. Automation Sensors. Work-Cell Support Systems. Robot and System Integration. Work-Cell Programming. Justification and Applications of Work Cells. Safety. Human Interface: Operator Training, Acceptance, and Problems. For those interested in Robotics and Manufacturing Automation or Production Design. "

Basic Synchros and Servomechanisms Van Valkenburgh, Nooger & Neville 1955

Japanese Technical Abstracts 1986

Proceedings IECON '84 1984

Robotics Products Database 1990

Design of a Brushless A.C. Servo-motor Using Neodymium Iron Boron N Boron Permanent Magnet Meterial Ciaran P. Allen 1988

Corporate Technology Directory 1988

AC Servo Systems GE Fanuc Automation North America 1987

Japanese Technical Periodical Index 1986

Brushless Servomotors Yasuhiko Dote 1990 Rapid progress in power electronics, microelectronics, and modern control technology during the past three decades has made possible the use of brushless servomotors in motion control. This application can provide high productivity and improved product quality on the production line and in manufacturing systems and is the basis of modern industrial automation and economic development. The book is intended as a practical introduction for engineers and students who are not familiar with servomotors and motion control. The control methods described are useful for practicing engineers who want to deepen their knowledge of motion control in manufacturing systems. Power electronics, mechatronics, microprocessors, magnetic materials and many other areas are covered in this important work.

AC Servo Systems GE Fanuc Automation North America 1987

Syncho and Servo Fundamentals United States. Bureau of Naval Personnel 1952

Industrial Servo Control Systems George W. Younkin 2002-10-22 Written by a seasoned expert, this authoritative and informative guide presents the technologies in the calculation of brushless DC motor time constants, material on drive sizing, and case studies illustrating key topics. The author details hardware specifications related to the operation of machine service drives and outlines troubleshooting methods for problems concerning machine nonlinearities, inertia, drive stiffness, and friction. He highlights recently developed simulation methods used to predict, assess, and improve the performance of service systems and their components and covers the function and assembly of drive systems, drive resolutions, drive ratios, and duty cycles.

Design News 1985

Introduction to Servomechanisms Arthur Porter 1953

Globalized Solutions for Sustainability in Manufacturing Jürgen Hesselbach 2011-03-19 The 18th CIRP International Conference on Life Cycle Engineering (LCE) 2011 continues a long tradition of scientific meetings focusing on the exchange of industrial and academic knowledge and experiences in life cycle assessment, product development, sustainable manufacturing and end-of-life-management. The theme "Globalized Solutions for Sustainability in Manufacturing" addresses the need for engineers to develop solutions which have the potential to address global challenges by providing products, services

and processes taking into account local capabilities and constraints to achieve an economically, socially and environmentally sustainable society in a global perspective. Globalized Solutions for Sustainability in Manufacturing do not only involve products or services that are changed for a local market by simple substitution or the omitting of functions. Products and services need to be addressed that ensure a high standard of living everywhere. Resources required for manufacturing and use of such products are limited and not evenly distributed in the world. Locally available resources, local capabilities as well as local constraints have to be drivers for product- and process innovations with respect to the entire life cycle. The 18th CIRP International Conference on Life Cycle Engineering (LCE) 2011 serves as a platform for the discussion of the resulting challenges and the collaborative development of new scientific ideas.

Industrial Servo Control Systems George W. Younkin 1996 This state-of-the-art reference discusses how servo control theory can be employed to recognize and correct real-world servo application problems - detailing hardware specifications and servo drive classifications vital to the operation of machine servo drives. Emphasizing the importance of selecting the correct size servo drive for a given machine, Industrial Servo Control Systems explains how to put servo drive components together to make a servo work...describes the evolution and classification of servos...considers the components of machine servo drives from a mathematical point of view...covers proportional, integral, and differential compensation...includes manual drive sizing forms for both electric and hydraulic servo drives...provides valuable performance indexes that can be used in establishing and judging the performance of servo drives...offers useful techniques to compensate for machine non-linearities that will affect servo drive performance...examines machine considerations such as inertia, drive stiffness, thrust/torque requirements, and drive duty cycles...introduces novel simulation methods to predict the performance of a servo driven machine before it is built...and more. Furnishing over 690 helpful tables, equations, and drawings, Industrial Servo Control Systems is essential reading for all mechanical, manufacturing, system and machine design, hydraulic, industrial, chemical, electrical and electronics, process control, power system, and servo engineers; systems maintenance personnel; and upper-level undergraduate and graduate students in these disciplines.

Servomechanisms United States. Army Materiel Command 1963

Servo Motors and Industrial Control Theory Riazollah Firoozian 2016-09-10 Servo Motors and Industrial Control Theory is the only text focused on the fundamentals of servo motors and control theory. Graphical methods for classical control theory have been augmented with worked examples using MatLab and Mathcad to reflect the reality of the way engineers solve control problems in the field today. State variable feedback control theory is introduced clearly and simply, with practical examples that help students approach what can be seen as complicated problems with confidence. This updated second edition includes expanded discussion of Nyquist and Root Locus stability criteria and the role of sensors, as well as new Mathcad examples. A range of parameters are introduced for each servo control system discussed, making this book a comprehensive learning tool for students and an accessible information resource for control system designers who want to keep their knowledge up-to-date. The author encourages readers with any inquiries regarding the book to contact him at riazollah@yahoo.com.

Machine Design 1985

Industrial Motor Control Fundamentals R. L. McIntyre 1990

Wood & Wood Products 1990

An Experimental Analysis of a Phase-controlled Two-phase AC Servo System Mark Alan Steinhacker 1950

Proceedings IECON. 1984

China Standard: GB/T 30549-2014 General specification for permanent magnet AC servo motor www.1clicktong.com 2019-07-26 This standard specifies the classification,technical requirements,test methods,test rules,delivery preparations,and user service of the permanent magnet AC servo motor. This standard is applicable to the permanent magnet AC servo motors(hereinafter shortage for motors)frame numbers from 40(including 40)up to 500(including 500).

Digital Servo Motor Control Lab-Volt (Quebec) Ltd 2010

Industrial Brushless Servomotors Peter Moreton 1999-12-22 Industrial use of the brushless servomotor, for instance in robotics, is increasing rapidly, because of their low maintenance needs and capabilities at high transient speeds. They offer flexibility and high performance, and advances in power electronics and microelectronics means they are now more affordable. This handbook gives the user of brushless servomotors a comprehensive guide to their use, including a description of all main features of the brushless motor drive system. Throughout mathematics is kept to a minimum and practical guidance is given based on real-life experience. Peter Moreton is a Research Fellow at the University of Bristol, having spent time in industry and universities worldwide. Written by a respected expert in the field - Peter Moreton has both high level academic and industrial experience Indispensible guide to a rapidly growing new area of technology Concise and accessible with a minimum of maths

A Comprehensive Guide to Servo Motor Sizing Wilfried Voss 2007-08 The Importance of servo motor sizing should not be underestimated. Proper motor sizing will not only result in significant cost savings by saving energy, reducing purchasing and operating costs, reducing downtime, etc.; it also helps the engineer to design better motion control systems. However, the knowledge of mechanical systems and their influence on motor speed, inertia and torque requirements seems to decline in a world where modern technology aspects, such as tuning and programming, seem to be the main focus. The motor sizing process involves a number of mathematical equations, which are most certainly documented, but not necessarily with the motor sizing process in mind. This book focuses primarily on servo motor sizing and it documents in detail the inertia and torque calculations of standard mechanical components and the motor selection process.

A New Servomechanisms Technique D. McDonald 1948

Electromechanical Control Systems and Devices Eugene B. Canfield 1977

Solid-State AC Motor Controls Sylveste Campbell 2020-10-28 This book discusses the current status of the solid-state AC motor controls. It treats most technical phenomena in the empirical sense, with emphasis on input-output characteristics of solid-state controls, oriented at all times to their effect on the performance of the AC motor.

A Design Method for a High Stall Torque AC Servo-motor R. T. West 1957

Servo Motor and Motion Control Using Digital Signal Processors Yasuhiko Dote 1990