

Torque Calculator

Andrzej Trzynadlowski

The Field Orientation Principle in Control of Induction Motors Andrzej Trzynadlowski, 1993-12-31 The Field Orientation Principle (FOP) constitutes a fundamental concept behind the modern technology of high-performance, vector-controlled drive systems with AC motors. The recent intense interest in these systems has been spawned by the widespread transition from DC to AC drives in industry. Induction motors, industry's traditional workhorses, are particularly well suited for FOP-based vector control. The Field Orientation Principle in Control of Induction Motors presents the FOP in a simple, easy-to-understand framework based on the space-vector dynamic model of the induction machine. Relationships between the classic phasor equivalent circuits of the motor and their vector counterparts are highlighted. A step-by-step derivation of dynamic equations of the motor provides a formal background for explanation of the basic approaches to vector control. In addition, the author presents scalar control methods for low-performance drives as an intermediate stage between uncontrolled and high-performance drives. The reader will also find a full chapter devoted to power inverters, which constitute an important component of adjustable speed AC drive systems, and a review of associated issues such as observers of motor variables, parameter estimation, adaptive tuning, and principles of the position and speed control of field-oriented induction motors. With a wealth of numerical examples and computer simulations illustrating the ideas and techniques discussed and an extensive bibliography, *The Field Orientation Principle in Control of Induction Motors* is a practical resource and valuable reference for researchers and students interested in motor control, power and industrial electronics, and control theory.

Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office, 2002

Power Conversion and Control of Wind Energy Systems Bin Wu, Yongqiang Lang, Navid Zargari, Samir Kouro, 2011-08-09 The book presents the latest power conversion and control technology in modern wind energy systems. It has nine chapters, covering technology overview and market survey, electric generators and modeling, power converters and modulation techniques, wind turbine characteristics and configurations, and control schemes for fixed- and variable-speed wind energy systems. The book also provides in-depth steady-state and dynamic analysis of squirrel cage induction generator, doubly fed induction generator, and synchronous generator based wind energy systems. To illustrate the key concepts and help the reader tackle real-world issues, the book contains more than 30 case studies and 100 solved problems in addition to simulations and experiments. The book serves as a comprehensive reference for academic researchers and practicing engineers. It can also be used as a textbook for graduate students and final year undergraduate students.

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.

Practical Calculation of Dynamo-electric Machines Alfred Eugene Wiener, 1901

Automotive Engineering Monograph Richard J. Howell,1989-03-01

Auto Math Handbook John Lawlor,1991 Offers formulas and equations for calculating brake horsepower and torque, displacement, stroke, bore, compression ratio, and more

Physics for Scientists and Engineers with Modern Physics Douglas C. Giancoli,2008 Key Message:This book aims to explain physics in a readable and interesting manner that is accessible and clear, and to teach readers by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that readers can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually practiced. Key Topics: INTRODUCTION, MEASUREMENT, ESTIMATING, DESCRIBING MOTION: KINEMATICS IN ONE DIMENSION, KINEMATICS IN TWO OR THREE DIMENSIONS; VECTORS, DYNAMICS: NEWTON'S LAWS OF MOTION , USING NEWTON'S LAWS: FRICTION, CIRCULAR MOTION, DRAG FORCES, GRAVITATION AND NEWTON'S6 SYNTHESIS , WORK AND ENERGY , CONSERVATION OF ENERGY , LINEAR MOMENTUM , ROTATIONAL MOTION , ANGULAR MOMENTUM; GENERAL ROTATION , STATIC EQUILIBRIUM; ELASTICITY AND FRACTURE , FLUIDS , OSCILLATIONS , WAVE MOTION, SOUND , TEMPERATURE, THERMAL EXPANSION, AND THE IDEAL GAS LAW KINETIC THEORY OF GASES, HEAT AND THE FIRST LAW OF THERMODYNAMICS , SECOND LAW OF THERMODYNAMICS , ELECTRIC CHARGE AND ELECTRIC FIELD , GAUSS'S LAW , ELECTRIC POTENTIAL , CAPACITANCE, DIELECTRICS, ELECTRIC ENERGY STORAGE ELECTRIC CURRENTS AND RESISTANCE, DC CIRCUITS, MAGNETISM, SOURCES OF MAGNETIC FIELD, ELECTROMAGNETIC INDUCTION AND FARADAY'S LAW, INDUCTANCE, ELECTROMAGNETIC OSCILLATIONS, AND AC CIRCUITS, MAXWELL'S EQUATIONS AND ELECTROMAGNETIC WAVES, LIGHT: REFLECTION AND REFRACTION, LENSES AND OPTICAL INSTRUMENTS, THE WAVE NATURE OF LIGHT; INTERFERENCE, DIFFRACTION AND POLARIZATION, SPECIAL THEORY OF RELATIVITY, EARLY QUANTUM THEORY AND MODELS OF THE ATOM, QUANTUM MECHANICS, QUANTUM MECHANICS OF ATOMS, MOLECULES AND SOLIDS, NUCLEAR PHYSICS AND RADIOACTIVITY, NUCLEAR ENERGY: EFFECTS AND USES OF RADIATION, ELEMENTARY PARTICLES,ASTROPHYSICS AND COSMOLOGY Market Description:This book is written for readers interested in learning the basics of physics.

International Gear Conference 2014: 26th-28th August 2014, Lyon Philippe Velez,2014-09-18 This book presents papers from the International Gear Conference 2014, held in Lyon, 26th-28th August 2014. Mechanical transmission components such as gears, rolling element bearings, CVTs, belts and chains are present in every industrial sector and over recent years, increasing competitive pressure and environmental concerns have provided an impetus for cleaner, more efficient and quieter units. Moreover, the emergence of relatively new applications such as wind turbines, hybrid transmissions and jet engines has led to even more severe constraints. The main objective of this conference is to provide a forum for the most recent advances, addressing the challenges in modern mechanical transmissions. The conference proceedings address all aspects of gear and power transmission technology and range of applications (aerospace, automotive, wind turbine, and others) including topical issues such as power losses and efficiency, gear vibrations and noise, lubrication, contact failures, tribodynamics and nano transmissions. A truly international contribution with more than 120 papers from all over the world A judicious balance between

fundamental research and industrial concerns Participation of the most respected international experts in the field of gearing A wide range of applications in terms of size, power, speed, and industrial sector

Electric Drives, Second Edition Ion Boldea, Syed A. Nasar, 2005-08-22 Electric drives are everywhere, and with the looming promise of electric vehicles and renewable energy, they will become more complex and the demands on their capabilities will continue to increase. To keep up with these trends, students require hands-on knowledge and a keen understanding of the subtleties involved in the operation of modern electric drives. The best-selling first edition of *Electric Drives* provided such an understanding, and this Second Edition offers the same approach with up-to-date coverage of all major types of electric drives, both constant and variable speed. This book provides a self-contained treatment of low-, medium-, and large-power drives illustrated by numerous application examples, problems, digital simulation results, and test results for both steady state and dynamic operation. This edition features updated material in every chapter, including references; new material on AC brush series motors, capacitor-split inductor motors, single-phase PMSMs and switched reluctance motors, and tooth-wound PMSMs, all with numerical examples; new case studies on AC synchronous and induction motors; and a new chapter on control of electric generators. The companion CD-ROM features the full text, class slides for instructors, and MATLAB® simulations of 10 closed-loop drives, two of which are new to this edition. With a practical, hands-on approach, *Electric Drives, Second Edition* is the ideal textbook to help students design, simulate, build, and test modern electric drives, from simple to complex.

Conference Record, Industry Applications Society, IEEE-IAS ... Annual Meeting IEEE Industry Applications Society, 1984

An investigation into hybrid power trains for vehicles with regenerative braking Ulises Diego-Ayala, 2007

Transactions of the American Institute of Electrical Engineers, 1912

Transactions of the American Institute of Electrical Engineers American Institute of Electrical Engineers, 1912 List of members in v. 7-15, 17, 19-20.

Fundamentals of Machine Design: Ajeet Singh, 2017-09-15 Written in a user-friendly manner, the text provides detailed discussions on design principles of belts, pulleys, ropes, chain drives and gear boxes. The text being a follow-up to the first volume, discusses properties, types, advantages and selection aspects of belt drives, flat belt pulleys, grooved pulleys and rope drives. It then explains construction aspects, classification, properties and the design procedure of important bearings including hydrodynamic and rolling bearings. It goes on to discuss several types of I.C. engine parts including cylinder, piston, connecting rod, crank shaft, valve gears, flywheels, clutches and brakes. Advantages and applications of worm and worm wheel drives and pressure vessels are also included.

The Electrical Journal, 1911

Electrical Circuit Theory and Technology John Bird, 2017-04-07 A fully comprehensive text for courses in electrical principles, circuit theory and electrical technology, providing 800 worked examples and over 1,350 further problems for students to work through at their own pace. This book is ideal for students studying engineering for the first time as part of BTEC National and other pre-degree vocational courses, as well as Higher Nationals, Foundation Degrees and first-year undergraduate modules.

Road Vehicle Performance George Gordon Lucas, 1986 First Published in 1986. Routledge is an imprint of Taylor & Francis, an informa company.

Build Your Own Teams of Robots with LEGO® Mindstorms® NXT and Bluetooth® Cameron Hughes, Tracey Hughes, Trevor Watkins, Bob Kramer, 2013-01-29 CREATE YOUR OWN SYNCHRONIZED ROBOT ARMY! PLAN, DESIGN, ASSEMBLE, AND PROGRAM ROBOT SQUADS THAT COMMUNICATE and cooperate with each other to accomplish together what they can't do individually. Build Your Own Teams of Robots with LEGO MINDSTORMS NXT and Bluetooth shows you how to construct a team capability matrix (TCM) and use the Bluetooth Robotic-Oriented Network (BRON) so your robot teams can share sensors, actuators, end effectors, motor power, and programs. Find out how the Bluetooth communications protocol works and how to program Bluetooth in NXT-G, NXC, LabVIEW, and Java. Learn how to send and receive Bluetooth messages, data, and commands among robots, between a robot and a computer, and between an Android smart phone and a robot. Through teamwork, your robots will be able to accomplish amazing feats! THE STEP-BY-STEP ROBOT TEAM PROJECTS IN THE BOOK INCLUDE: * Crime Scene Investigation Robot Team * Robot Convoy * Rubik's Cube Solver LEARN HOW TO: Coordinate multiple robots to work together as a team to perform tasks Combine two or more microcontrollers to make a single, multicontroller/multi-agent robot Take advantage of sensor and actuator capabilities in a team environment Establish goals and teamwork strategies for your robots Control your robot teams with NXT-G Bluetooth bricks and LabVIEW for NXT Bluetooth VI Activate your team using a smart phone Give your team of robots Java power with leJOS Use Java on the Linux and Darwin operating systems Watch video demonstrations of the projects and download code and examples in multiple languages (NXT-G, Java, LabVIEW, and NXC) from the book's companion website at www.robotteams.org. Downloads are also available at mhprofessional.com/robotteams.

Thinning Films and Tribological Interfaces D. Dowson, M. Priest, C. M. Taylor, P. Ehret, T.H.C. Childs, G. Dalmaz, A. A. Lubrecht, Y. Berthier, L. Flamand, J.M. Georges, 2000-09-01 This collection of fully peer-reviewed papers were presented at the 26th Leeds-Lyon Tribology Symposium which was held in Leeds, UK, 14-17 September, 1999. The Leeds-Lyon Symposia on Tribology were launched in 1974, and the large number of references to original work published in the Proceedings over many years confirms the quality of the published papers. It also indicates that the volumes have served their purpose and become a recognised feature of the tribological literature. This year's title is 'Thinning Films and Tribological Interfaces', and the papers cover practical applications of tribological solutions in a wide range of situations. The evolution of a full peer review process has been evident for a number of years. An important feature of the Leeds-Lyon Symposia is the presentation of current research findings. This remains an essential feature of the meetings, but for the 26th Symposium authors were invited to submit their papers for review a few weeks in advance of the Symposium. This provided an opportunity to discuss recommendations for modifications with the authors.

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









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