

# INDUSTRIAL INTELLIGENT CONTROL

Fundamentals  
and Applications

**Yong-Zai Lu**

# Industrial Intelligent Control Fundamentals And Applications

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## **Industrial Intelligent Control Fundamentals And Applications:**

*Industrial Intelligent Control* Yong-Zai Lu, 1996-05-01 With a strong emphasis on applications of intelligent control this extremely accessible book covers the fundamentals methodologies architectures and algorithms of automatic control systems The author summarizes several current concepts to improve industrial control systems combining classical control techniques of dynamic modeling and control with new approaches discussed in the text Addresses such intelligent systems as neural networks fuzzy logic ruled based and genetic algorithms Demonstrates how to develop design and use intelligent systems to solve sophisticated industrial control problems Includes numerous worked application examples *Applied Intelligent Control of Induction Motor Drives* Tze Fun Chan, Keli Shi, 2011-01-19 Induction motors are the most important workhorses in industry They are mostly used as constant speed drives when fed from a voltage source of fixed frequency Advent of advanced power electronic converters and powerful digital signal processors however has made possible the development of high performance adjustable speed AC motor drives This book aims to explore new areas of induction motor control based on artificial intelligence AI techniques in order to make the controller less sensitive to parameter changes Selected AI techniques are applied for different induction motor control strategies The book presents a practical computer simulation model of the induction motor that could be used for studying various induction motor drive operations The control strategies explored include expert system based acceleration control hybrid fuzzy PI two stage control neural network based direct self control and genetic algorithm based extended Kalman filter for rotor speed estimation There are also chapters on neural network based parameter estimation genetic algorithm based optimized random PWM strategy and experimental investigations A chapter is provided as a primer for readers to get started with simulation studies on various AI techniques Presents major artificial intelligence techniques to induction motor drives Uses a practical simulation approach to get interested readers started on drive development Authored by experienced scientists with over 20 years of experience in the field Provides numerous examples and the latest research results Simulation programs available from the book's Companion Website This book will be invaluable to graduate students and research engineers who specialize in electric motor drives electric vehicles and electric ship propulsion Graduate students in intelligent control applied electric motion and energy as well as engineers in industrial electronics automation and electrical transportation will also find this book helpful Simulation materials available for download at [www.wiley.com/go/chanmotor](http://www.wiley.com/go/chanmotor)

**Industrial Intelligent Control** Yong-Zai Lu, 1996

Handbook of Water and Energy Management in Food Processing Jiri Klemes, Robin Smith, Jin-Kuk Kim, 2008-06-30 Effective water and energy use in food processing is essential not least for legislative compliance and cost reduction This major volume reviews techniques for improvements in the efficiency of water and energy use as well as wastewater treatment in the food industry Opening chapters provide an overview of key drivers for better management Part two is concerned with assessing water and energy consumption and designing strategies for their reduction These include auditing

energy and water use and modelling and optimisation tools for water minimisation Part three reviews good housekeeping procedures measurement and process control and monitoring and intelligent support systems Part four discusses methods to minimise energy consumption Chapters focus on improvements in specific processes such as refrigeration drying and heat recovery Part five discusses water reuse and wastewater treatment in the food industry Chapters cover water recycling disinfection techniques aerobic and anaerobic systems for treatment of wastewater The final section concentrates on particular industry sectors including fresh meat and poultry cereals sugar soft drinks brewing and winemaking With its distinguished editors and international team of contributors Handbook of water and energy management in food processing is a standard reference for the food industry Provides an overview of key drivers for better management Reviews techniques for improvements in efficiency of water and energy use and waste water treatment Examines house keeping procedures and measurement and process control

### **Environmental Systems Analysis with MATLAB®** Stefano

Marsili-Libelli, 2018-09-03 Explore the inner workings of environmental processes using a mathematical approach

Environmental Systems Analysis with MATLAB combines environmental science concepts and system theory with numerical techniques to provide a better understanding of how our environment works The book focuses on building mathematical models of environmental systems and using these models to analyze their behaviors Designed with the environmental professional in mind it offers a practical introduction to developing the skills required for managing environmental modeling and data handling The book follows a logical sequence from the basic steps of model building and data analysis to implementing these concepts into working computer codes and then on to assessing their results It describes data processing rarely considered in environmental analysis outlines the tools needed to successfully analyze data and develop models and moves on to real world problems The author illustrates in the first four chapters the methodological aspects of environmental systems analysis and in subsequent chapters applies them to specific environmental concerns The accompanying software bundle is freely downloadable from the book web site It follows the chapters sequence and provides a hands on experience allowing the reader to reproduce the figures in the text and experiment by varying the problem setting A basic MATLAB literacy is required to get the most out of the software Ideal for coursework and self study this offering Deals with the basic concepts of environmental modeling and identification both from the mechanistic and the data driven viewpoint Provides a unifying methodological approach to deal with specific aspects of environmental modeling population dynamics flow systems and environmental microbiology Assesses the similarities and the differences of microbial processes in natural and man made environments Analyzes several aquatic ecosystems case studies Presents an application of an extended Streeter Phelps S P model Describes an ecological method to estimate the bioavailable nutrients in natural waters Considers a lagoon ecosystem from several viewpoints including modeling and management and more

*Proceedings of the ... American Control*

*Conference*, 1998 **The Industrial Electronics Handbook** J. David Irwin, 1997-05-09 From traditional topics that form

the core of industrial electronics to new and emerging concepts and technologies The Industrial Electronics Handbook in a single volume has the field covered Nowhere else will you find so much information on so many major topics in the field For facts you need every day and for discussions on topics you have only dreamed of The Industrial Electronics Handbook is an ideal reference Transactions on Engineering Technologies Haeng Kon Kim,Sio-Iong Ao,Mahyar A. Amouzegar,2014-07-02

This volume contains fifty six revised and extended research articles written by prominent researchers participating in the congress Topics covered include electrical engineering chemical engineering circuits computer science communications systems engineering mathematics systems engineering manufacture engineering and industrial applications This book offers theoretical advances in engineering technologies and presents state of the art applications It also serves as an excellent source of reference for researchers and graduate students working with on engineering technologies **Fundamentals of**

**Mechanics of Robotic Manipulation** Marco Ceccarelli,2013-03-09 This book has evolved from a course on Mechanics of Robots that the author has thought for over a dozen years at the University of Cassino at Cassino Italy It is addressed mainly to graduate students in mechanical engineering although the course has also attracted students in electrical engineering The purpose of the book consists of presenting robots and robotized systems in such a way that they can be used and designed for industrial and innovative non industrial applications with no great efforts The content of the book has been kept at a fairly practical level with the aim to teach how to model simulate and operate robotic mechanical systems The chapters have been written and organized in a way that they can be read even separately so that they can be used separately for different courses and readers However many advanced concepts are briefly explained and their use is emphasized with illustrative examples Therefore the book is directed not only to students but also to robot users both from practical and theoretical viewpoints In fact topics that are treated in the book have been selected as of current interest in the field of Robotics Some of the material presented is based upon the author's own research in the field since the late 1980s **Advanced Fuzzy Logic**

**Technologies in Industrial Applications** Ying Bai,Hanqi Zhuang,Dali Wang,2007-01-17 The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering The rapid development of control technology has an impact on all areas of the control discipline New theory new controllers actuators sensors new industrial processes computer methods new applications new philosophies new challenges Much of this development work resides in industrial reports feasibility study papers and the reports of advanced collaborative projects The series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination In the mid 1960s and contemporary with Kalman's pioneering papers on state space models and optimal control L A Zadeh began publishing papers on fuzzy sets It took another decade before the fuzzy logic controller due to Mamdani and Assilion was reported in the literature ca 1974 and now the fuzzy logic control paradigm is entering its fifth decade of development and application Thus this new Advances in Industrial Control monograph edited by Ying Bai Hanqi Zhuang and

Dali Wang on fuzzy logic control and its practical application comes as a timely reminder of the wide range of problems that can be solved by this continually evolving methodology      **Soft Computing in Industrial Applications** António Gaspar-Cunha,Ricardo Takahashi,Gerald Schaefer,Lino Costa,2011-04-27 The 15th Online World Conference on Soft Computing in Industrial Applications held on the Internet constitutes a distinctive opportunity to present and discuss high quality papers making use of sophisticated Internet tools and without incurring in high cost and thus facilitating the participation of people from the entire world The book contains a collection of papers covering outstanding research and developments in the field of Soft Computing including evolutionary computation fuzzy control and neuro fuzzy systems bio inspired systems optimization techniques and application of Soft Computing techniques in modeling control optimization data mining pattern recognition and traffic and transportation systems      Creating Quality William J. Kolarik,1999 Creating Quality Process Design for Results presents practical approaches based on scientific evidence rather than anecdotal encounters in order to provide readers with the motivation and means to understand and act with regard to process definition redefinition process control and process improvement Descriptive cases and examples are used to reinforce technical points Critical text is highlighted in bold to accelerate learning      **Proceedings of the 1995 American Control Conference** American Automatic Control Council,1995      **Artificial Intelligence in Mechanical and Industrial Engineering** Kaushik Kumar,Divya Zindani,J. Paulo Davim,2021-06-20 Artificial Intelligence in Mechanical and Industrial Engineering offers a unified platform for the dissemination of basic and applied knowledge on the integration of artificial intelligence within the realm of mechanical and industrial engineering The book covers the tools and information needed to build successful careers and a source of knowledge for those working with AI within these domains The book offers a systematic approach to explicate fundamentals as well as recent advances It incorporates various case studies for major topics as well as numerous examples It will also include real time intelligent automation and associated supporting methodologies and techniques and cover decision support systems as well as applications of Chaos Theory and Fractals The book will give scientists researchers instructors students and practitioners the tools and information needed to build successful careers and to be an impetus to advancements in next generation mechanical and industrial engineering domains

**Empirical Research for Futuristic E-Commerce Systems: Foundations and Applications** Bilgaiyan, Saurabh,Singh, Jagannath,Das, Himansu,2022-06-24 Recently there has been an increase in the number of e commerce users This has caused online shopping to become a new and challenging market for e commerce vendors Security inventory management reliability and performance of e commerce websites are a few of the challenges associated with the rising popularity of e commerce On a daily basis millions of e commerce transactions are taking place This generates a huge amount of data that can be used to solve the various challenges of e commerce Further study on how this data can be used to address these issues is required to propel businesses forward Empirical Research for Futuristic E Commerce Systems

Foundations and Applications shares experiences and research outcomes on all aspects of intelligent software solutions such as machine learning nature inspired computing and data science for business to consumer B2C e commerce By looking at the exponential growth of the e commerce market and its popularity this book also focuses on the current issues solutions and future possibilities in the B2C model of e commerce Covering a range of critical topics such as online shopping supply chain management and blockchain this reference work is ideal for academic scientists data scientists software developers business experts researchers scholars practitioners academicians instructors and students

*The Industrial Information Technology Handbook* Richard Zurawski, 2018-10-03 The Industrial Information Technology Handbook focuses on existing and emerging industrial applications of IT and on evolving trends that are driven by the needs of companies and by industry led consortia and organizations Emphasizing fast growing areas that have major impacts on industrial automation and enterprise integration the Handbook covers topics such as industrial communication technology sensors and embedded systems The book is organized into two parts Part 1 presents material covering new and quickly evolving aspects of IT Part 2 introduces cutting edge areas of industrial IT The Handbook presents material in the form of tutorials surveys and technology overviews combining fundamentals and advanced issues with articles grouped into sections for a cohesive and comprehensive presentation The text contains 112 contributed reports by industry experts from government companies at the forefront of development and some of the most renowned academic and research institutions worldwide Several of the reports on recent developments actual deployments and trends cover subject matter presented to the public for the first time

*Subject Guide to Books in Print*, 1997      [Industrial Motor Control Fundamentals](#) R. L. McIntyre, Rex Losee, 1990      *Human-Like Biomechanics* Vladimir G. Ivancevic, Tijana T. Ivancevic, 2008-01-11 Human Like Biomechanics is a comprehensive introduction into modern geometrical methods to be used as a unified research approach in two apparently separate and rapidly growing fields mathematical biomechanics and humanoid robotics The book contains six Chapters and an Appendix The first Chapter is an Introduction giving a brief review of mathematical techniques to be used in the text The second Chapter develops geometrical basis of human like biomechanics while the third Chapter develops its mechanical basis mainly from generalized Lagrangian and Hamiltonian perspective The fourth Chapter develops topology of human like biomechanics while the fifth Chapter reviews related nonlinear control techniques The sixth Chapter develops covariant biophysics of electro muscular stimulation The Appendix consists of two parts classical muscular mechanics and modern path integral methods which are both used frequently in the main text The whole book is based on the authors own research papers in human like biomechanics

**Industrial Robot Handbook** Richard K. Miller, 2013-11-21 These are exciting times for manufacturing engineers It has been said that American industry will undergo greater changes during the 1980 and 1990 decades than it did during the entire eight preceding decades of this century The industrial robot has become the symbol of this progress in computer integrated manufacturing This book is for engineers and managers in manufacturing industries

who are involved in implementing robotics in their operations With tens of thousands of industrial robots already in use in the United States there are plenty of role models for proposed applications to be patterned after This book provides an overview of robot applications and presents case histories that might suggest applications to engineers and managers for implementation in their own facilities The application of industrial robots were well developed in the late 1970s and early 1980s While the reader may note some of the examples discussed in this handbook incorporate older robot models it is the application that is of interest As Joseph Engelberger the founding father of robotics has pointed out industrial robots in 1988 are doing pretty much the same kind of work as they did in 1980



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