

Fundamentals of Electric Vehicles: Technology and Economics
Professor L. Kannan
Professor of Practice
Indian Institute of Technology, Madras
Lecture - 56
Field-Oriented Control

(Refer Slide Time: 00:17)

ONPTIL

6.6 Field-oriented Control (FOC)

ADC, Signal Conditioning, Low-pass Filter, PI control, Protection



We will now apply whatever we learned so far to actually control the motor. We are now getting out of the motor per se, and getting into the controller which will control the motor according all the physics about the motor that we have learned so far.

And the best possible control, there are different methods of control that are used different context. The best one that we would recommend for an electric vehicle is what is called field-oriented control.

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Bhatnagar, Vishal



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Control Systems Jitendra R. Raol, Ramakalyan Ayyagari, 2019-07-12 Control Systems Classical Modern and AI Based Approaches provides a broad and comprehensive study of the principles mathematics and applications for those studying basic control in mechanical electrical aerospace and other engineering disciplines The text builds a strong mathematical foundation of control theory of linear nonlinear optimal model predictive robust digital and adaptive control systems and it addresses applications in several emerging areas such as aircraft electro mechanical and some nonengineering systems DC motor control steel beam thickness control drum boiler motional control system chemical reactor head disk assembly pitch control of an aircraft yaw damper control helicopter control and tidal power control Decentralized control game theoretic control and control of hybrid systems are discussed Also control systems based on artificial neural networks fuzzy logic and genetic algorithms termed as AI based systems are studied and analyzed with applications such as auto landing aircraft industrial process control active suspension system fuzzy gain scheduling PID control and adaptive neuro control Numerical coverage with MATLAB is integrated and numerous examples and exercises are included for each chapter Associated MATLAB code will be made available

Computer Aided Design and Manufacturing Zhuming Bi, Xiaoqin Wang, 2020-02-04 Broad coverage of digital product creation from design to manufacture and process optimization This book addresses the need to provide up to date coverage of current CAD CAM usage and implementation It covers in one source the entire design to manufacture process reflecting the industry trend to further integrate CAD and CAM into a single unified process It also updates the computer aided design theory and methods in modern manufacturing systems and examines the most advanced computer aided tools used in digital manufacturing Computer Aided Design and Manufacturing consists of three parts The first part on Computer Aided Design CAD offers the chapters on Geometric Modelling Knowledge Based Engineering Platforming Technology Reverse Engineering and Motion Simulation The second part on Computer Aided Manufacturing CAM covers Group Technology and Cellular Manufacturing Computer Aided Fixture Design Computer Aided Manufacturing Simulation of Manufacturing Processes and Computer Aided Design of Tools Dies and Molds TDM The final part includes the chapters on Digital Manufacturing Additive Manufacturing and Design for Sustainability The book is also featured for being uniquely structured to classify and align engineering disciplines and computer aided technologies from the perspective of the design needs in whole product life cycles utilizing a comprehensive Solidworks package add ins toolbox and library to showcase the most critical functionalities of modern computer aided tools and presenting real world design projects and case studies so that readers can gain CAD and CAM problem solving skills upon the CAD CAM theory Computer Aided Design and Manufacturing is an ideal textbook for undergraduate and graduate students in mechanical engineering manufacturing engineering and industrial engineering It can also be used as a technical reference for researchers and engineers in mechanical and manufacturing engineering or computer aided technologies

Mitigation of Gas Pipeline

Integrity Problems Mavis Sika Okyere,2020-10-04 Mitigation of Gas Pipeline Integrity Problems presents the methodology to enable engineers experienced or not to alleviate pipeline integrity problems during operation It explains the principal considerations and establishes a common approach in tackling technical challenges that may arise during gas production Covers third party damage corrosion geotechnical hazards stress corrosion cracking off spec sales gas improper design or material selection as built flaws improper operations and leak and break detection Details various hazard mitigation options Offers tested concepts of pipeline integrity blended with recent research results documented in a scholarly fashion to make it simple to the average reader This practical work serves the needs of advanced students researchers and professionals working in pipeline engineering and petrochemical industries

News & Media Handbook Mr. Gopi Sathya Srinivas,2024-06-23 This book serves as a handbook reference on News Media for school and graduation students It covers fundamental to intermediate concepts in journalism providing a comprehensive understanding suitable for educational purposes

Data Mining and Analysis in the Engineering Field Bhatnagar, Vishal,2014-05-31 Particularly in the fields of software engineering virtual reality and computer science data mining techniques play a critical role in the success of a variety of projects and endeavors Understanding the available tools and emerging trends in this field is an important consideration for any organization Data Mining and Analysis in the Engineering Field explores current research in data mining including the important trends and patterns and their impact in fields such as software engineering With a focus on modern techniques as well as past experiences this vital reference work will be of greatest use to engineers researchers and practitioners in scientific engineering and business related fields

Control Engineering Jacqueline Wilkie,Michael A Johnson,Reza Katebi,2017-04-21 Control Engineering An Introductory Course is aimed at second or third year courses in Electrical and Mechanical Engineering and provides for the needs of these courses without being over burdened with detail The authors work in one of the foremost centres in Europe for Control Engineering and bring both teaching and practical consultancy experience to the text which links theoretical approaches to actual case histories Including an introduction to the software tools of MATLAB and SIMULINK this book also includes simulations and examples throughout and will give a straightforward and no nonsense introduction to Control Engineering for students and those wishing to refresh their knowledge

Ed. Eitelberg's Control Engineering Eduard Eitelberg,2000

Systems and Control Engineering (WB2230) ,2015 *Advanced Topics in Control Systems Theory* Françoise Lamnabhi-Lagarrigue,Julio Antonio Loría Perez,Elena Viatcheslavovna Panteley,2005-08-25 Advanced Topics in Control Systems Theory contains selected contributions written by lecturers at the second annual Formation d Automatique de Paris FAP Graduate Control School in Paris It is addressed to graduate students and researchers in control theory with topics touching on a variety of areas of interest to the control community such as cascaded systems flatness optimal control and Hamiltonian and infinite dimensional systems The reader is provided with a well integrated synthesis of the latest thinking in these subjects without

the need for an exhaustive literature review Advanced Topics in Control Systems Theory can be used to support either a one term general advanced course on nonlinear control theory devoting a few lectures to each chapter or for more focused and intensive courses at graduate level The book's concise but pedagogical manner will give an ideal start to researchers wishing to broaden their knowledge in aspects of modern control theory outside their own expertise *Open University*, 1985

The Art of Control Engineering Ken Dutton, Steve Thompson, Bill Barraclough, 1997 The Art of Control Engineering provides a refreshingly new and practical treatment of the study of control systems The opening chapters assume no prior knowledge of the subject and are suitable for use in introductory courses The material then progresses smoothly to more advanced topics such as nonlinear systems Kalman filtering robust control multivariable systems and discrete event controllers Taking a practical perspective the text demonstrates how the various techniques fit into the overall picture of control and stresses the ingenuity required in choosing the best tool for each job and deciding how to apply it The most important topics are revisited at appropriate levels throughout the book building up progressively deeper layers of knowledge The Art of Control Engineering is an essential core text for undergraduate degree courses in control electrical and electronic systems and mechanical engineering Its broad practical coverage will also be very useful to postgraduate students and practising engineers Modern Control for Engineering Systems, 1984 *Command and Control*, 1980

Control Engineering Chris Bissell, 2017-10-19 Since its inception the Tutorial Guides in Electronic Engineering series has met with great success among both instructors and students Designed for first and second year undergraduate courses each text provides a concise list of objectives at the beginning of every chapter key definitions and formulas highlighted in margin notes and references to other texts in the series With emphasis on the fundamental ideas and applications of modelling and design Control Engineering imparts a thorough understanding of the principles of feedback control Simple but detailed design examples used throughout the book illustrate how various classical feedback control techniques can be employed for single input single output systems Noting the interdisciplinary nature of control engineering the author makes the text equally relevant to students whose interests lie outside of electronics by concentrating on general systems characteristics rather than on specific implementations The author assumes students are familiar with complex numbers phasors and elementary calculus and while a knowledge of simple linear differential equations would be useful this treatment has few other mathematical requirements With its clear explanations copious illustrations well chosen examples and end of chapter exercises Control Engineering forms an outstanding first course textbook *Advanced Control Engineering* Roland Burns, 2001-10-05 Advanced Control Engineering provides a complete course in control engineering for undergraduates of all technical disciplines Starting with a basic overview of elementary control theory this text quickly moves on to a rigorous examination of more advanced and cutting edge date aspects such as robust and intelligent control including neural networks and genetic algorithms With examples from aeronautical marine and many other types of engineering Roland Burns

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