Nonlinear Control of Electric Machines: An Overview

David G. Taylor

Disc to the increasing availability of improved power electronics and digital processors at reduced costs, there has been a trend to seek higher performance from electric machine systems through the design of more suphisticated control systems software. These exist significant challenges in the search for improved control system designs, however, since (i) the dynamics of most electric machine systems exhibit significant nonlinearities, (ii) not all state variables are necessarily measured, and (iii) the parameters of the system can vary significantly from their notesinal values. In recent years, a wide range of nonlinear methods for fordback control, state estimation, and parameter identification have emerged, and some of these results are reviewed and summarized in this article.

Introduction.

Electric machines are electromechanical energy convertors, used for both motor drives and generating systems. Nearly all electric power used throughout the world is generated by so-called synchronous machines (operated as generators), and a large fraction of all this electric power is consumed by so-called induction machines (operated as motors). There are many other types of electric machines, though, distinguished by the easternals used, certain key construction features, and the underlying principles of operations.

The first DC machine was constructed by Faraday around 1830, the first practical version was made by Henry in 1829, and the first commercially successful version was introduced in 1837. The three-phase induction machine was invented by Tesla around 1887. Although improved materials and manufacturing methods continue to refine electric machines, it is safe to say that the fundamental issues relating to electromechanical energy conversion have been established for well over a century.

In such an apparently well-established field, it may come as a surprise that today there is more research and development activity related to electric machine systems that ever before. Included in a modern electric machine system is the electric machine intelf, power electronic circuits, electrical and/or mechanical sensors, and digital processors equipped with varietisative algorithms. The recent developments in power semi-conductors, digital electronics, and permanent-magnet materials have led to "enabling technology" for today's advanced electronic machine systems. But the increasing use of computers, both for

The author is with the Georgia Institute of Technology, School of Electrical and Computer Engineering, Adianta, GA 30332-0250. This work was supported in part by the National Science Foundation under Grant ECS-9158037 and by the Air Force Office of Scientific Between hunder Grant F49620-95-1-0347. the design of electric machines and for their real-time control, is new contributing more to the level of innovation in electric machine systems than perhaps any other factor.

This article attempts to provide an overview of recent developments in control systems design for electric machines operated as motor deliver. The article talax a broad perspective in the sense that the wide variety of different machine types is considered, hopefully from a unifying point of view. On the other hand, in order to limit the scope substantiality, as effort was made to focus specifically on the more recent needlense control methods, as opposed to the classical methods, which have less potential for achieving high-dynamic performance. An unavoidable limitation of the presentation is a lack of depth and detail in the description of individual achievements; however, the intention was to high-light needlinear control technology for electric machines to a broad audience, and to guide the interested reader to the appropriate sources for further study.

To put the control design problem into perspective, the article begins with a discussion of electric machine modeling, with emphasis on a generic formulation that can be further specialized to specific machine types as needed. The most commonly made simplifications available for electric machine models are reviewed, and the practical issue of model parameterization is also considered. The next topic addressed is (state-feedback) control design for electric machines and, for purposes of organization, the recent nonlinear methodologies are divided into these groups: exact linearization design, energy shaping design, and backuteping and manifold design, Most, if not all, of the recently reded electric machine control contributions can be roughly placed within these groups. Finally, the roles of parameter identifiers and state observers for electric machine control are briefly discussed.

The list of references included is by no means exhaustive, and is intended only to represent some key publications for each of the topics addressed within the confining structure of this overview article. Although each of the references cited presumably could provide useful background information, two references in particular deserve special mention. The survey/challenge particular deservitions of modeling, estimation, and control issues for electric machines are still relevant today, it also contains an extensive bibliography and would make a helpful supplement to the present article. Also, a very recent special issue of Procurelings of the IEEE, [10], contains a collection of informative papers spanning the broad arms of power electronics and motion control.

Nonlinear Control Of Electric Machinery

James Joseph Carroll

Nonlinear Control Of Electric Machinery:

Nonlinear Control of Electric Machinery Dawson, 2019-01-22 This work presents nonlinear control algorithms for a benchmark mechanical system actuated by different types of electric machinery emphasizing system stability and robustness pivotal in the development of optimal position trajectory controllers for common motors College or university bookstores may order five or more copies at a special student price available on request from Marcel Dekker Nonlinear Control of Electric Machinery D. M. Dawson, Jun Hu, Timothy C. Burg, 1998 Nonlinear Control of Electric Machines James Joseph Modeling and High Performance Control of Electric Machines John Chiasson, 2005-05-13 Modeling and High Performance Control of Electric Machines introduces you to both the modeling and control of electric machines The direct current DC machine and the alternating current AC machines induction PM synchronous and BLDC are all covered in detail The author emphasizes control techniques used for high performance applications specifically ones that require both rapid and precise control of position speed or torque You ll discover how to derive mathematical models of the machines and how the resulting models can be used to design control algorithms that achieve high performance Graduate students studying power and control as well as practicing engineers in industry will find this a highly readable text on the operation modeling and control of electric machines An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department Instructor Support materials are also available Email IAline wiley com

The Control Handbook William S. Levine, 1996-02-23 This is the biggest most comprehensive and most prestigious compilation of articles on control systems imaginable Every aspect of control is expertly covered from the mathematical foundations to applications in robot and manipulator control Never before has such a massive amount of authoritative detailed accurate and well organized information been available in a single volume Absolutely everyone working in any aspect of systems and controls must have this book **Nonlinear Control of Electric Machines** James Joseph Sensorless AC Electric Motor Control Alain Glumineau, Jesús de Leon Morales, 2015-03-16 This Carroll.1993 monograph shows the reader how to avoid the burdens of sensor cost reduced internal physical space and system complexity in the control of AC motors Many applications fields electric vehicles wind and wave energy converters and robotics among them will benefit Sensorless AC Electric Motor Control describes the elimination of physical sensors and their replacement with observers i e software sensors Robustness is introduced to overcome problems associated with the unavoidable imperfection of knowledge of machine parameters resistance inertia and so on encountered in real systems The details of a large number of speed and or position sensorless ideas for different types of permanent magnet synchronous motors and induction motors are presented along with several novel observer designs for electrical machines Control strategies are developed using high order sliding mode and guasi continuous sliding mode techniques and two types of observer controller schemes based on backstepping and sliding mode techniques are described Experimental results validate the performance of these observer and controller configurations with test trajectories of significance in difficult sensorless AC machine problems Control engineers working with AC motors in a variety of industrial environments will find the space and cost saving ideas detailed in Sensorless AC Electric Motor Control of much interest Academic researchers and graduate students from electrical mechanical and control engineering backgrounds will be able to see how advanced theoretical control can be applied in meaningful real systems

Vector Control of Three-Phase AC Machines Nguyen Phung Quang, Jörg-Andreas Dittrich, 2015-05-14 This book addresses the vector control of three phase AC machines in particular induction motors with squirrel cage rotors IM permanent magnet synchronous motors PMSM and doubly fed induction machines DFIM from a practical design and development perspective The main focus is on the application of IM and PMSM in electrical drive systems where field orientated control has been successfully established in practice It also discusses the use of grid voltage oriented control of DFIMs in wind power plants This second enlarged edition includes new insights into flatness based nonlinear control of IM PMSM and DFIM The book is useful for practitioners as well as development engineers and designers in the area of electrical drives and wind power technology It is a valuable resource for researchers and students

Nonlinear Control Algorithms for Electric Machines Praveen Vedagarbha,1997 Power Converter of Electric
Machines, Renewable Energy Systems, and Transportation Adolfo Dannier, Gianluca Brando, Marino Coppola,2021-09-02
Power converters and electric machines represent essential components in all fields of electrical engineering In fact we are heading towards a future where energy will be more and more electrical electrical vehicles electrical motors renewables storage systems are now widespread The ongoing energy transition poses new challenges for interfacing and integrating different power systems The constraints of space weight reliability performance and autonomy for the electric system have increased the attention of scientific research in order to find more and more appropriate technological solutions In this context power converters and electric machines assume a key role in enabling higher performance of electrical power conversion Consequently the design and control of power converters and electric machines shall be developed accordingly to the requirements of the specific application thus leading to more specialized solutions with the aim of enhancing the reliability fault tolerance and flexibility of the next generation power systems

The Top Books of the Year Nonlinear Control Of Electric Machinery The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Nonlinear Control Of Electric Machinery: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a guiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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