

$$P \begin{bmatrix} e_\alpha \\ e_\beta \end{bmatrix} = \begin{bmatrix} -\psi_{af} \omega_e^2 \cos \theta_e \\ -\psi_{af} \omega_e^2 \sin \theta_e \end{bmatrix} = \omega_e \begin{bmatrix} -e_\beta \\ e_\alpha \end{bmatrix}$$

Full-order observer

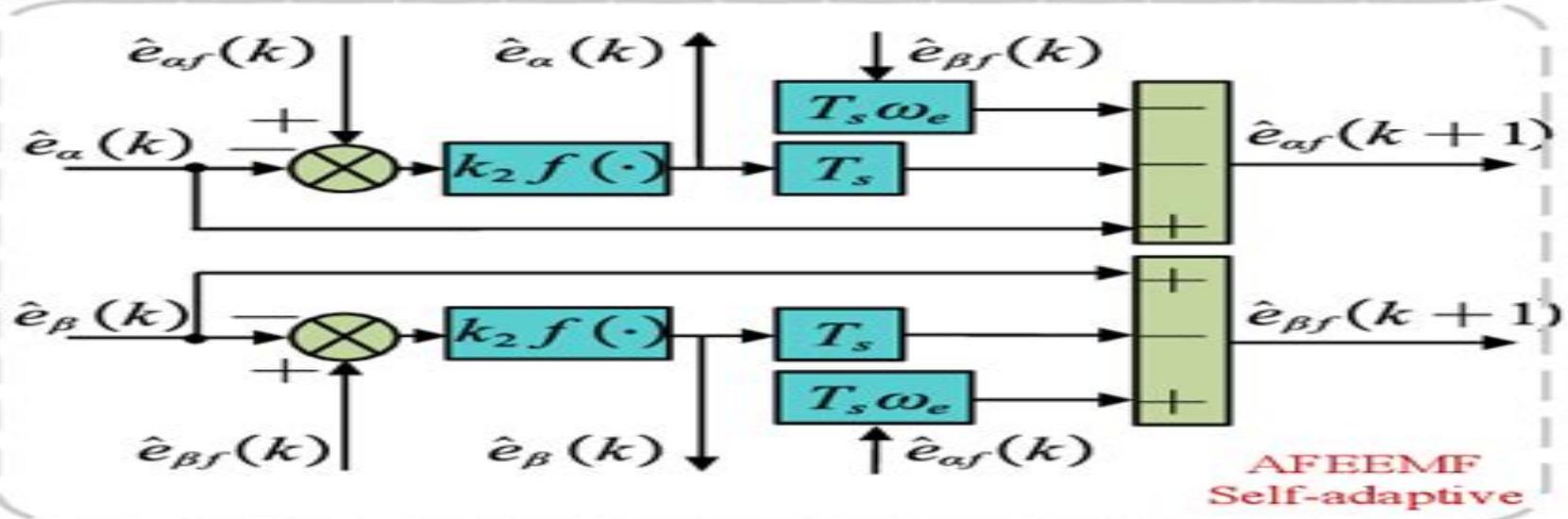
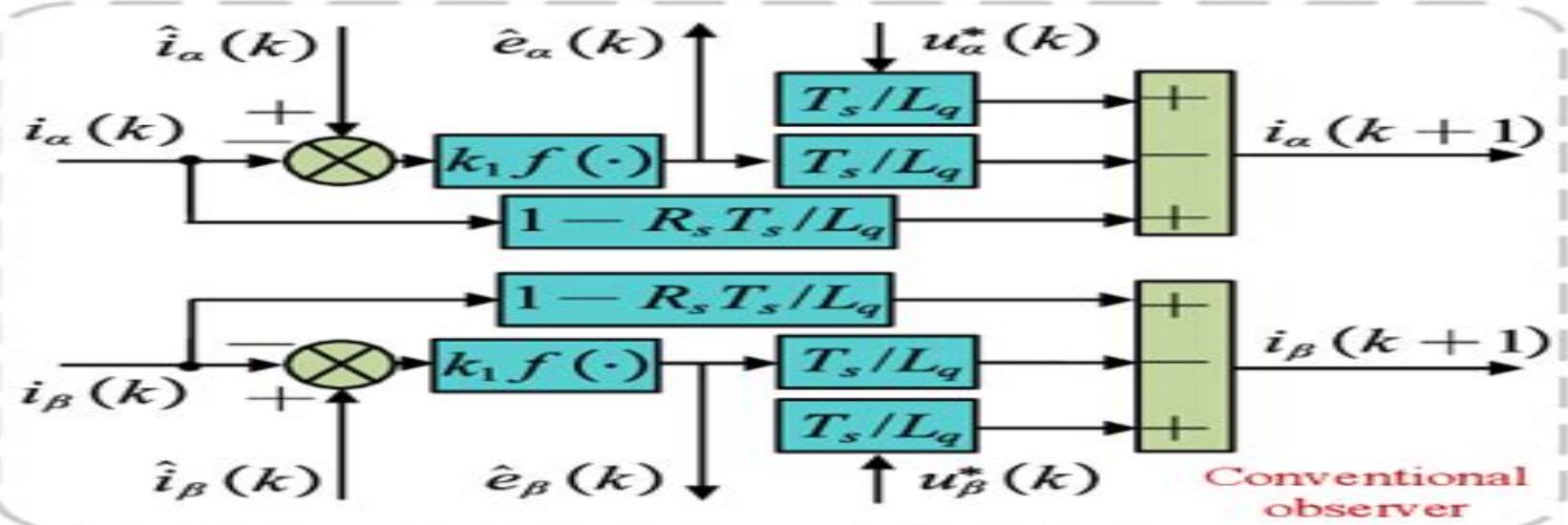


Fig. 1. Structure of full-order SMO.

Flux Sliding Mode Observer Design For Sensorless Control

Vadim Utkin, Juergen Guldner, Ma Shijun



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Sliding Mode Control in Electro-mechanical Systems Vadim Utkin, Juergen Guldner, Ma Shijun, 1999-04-22 Sliding Mode Control SMC is gaining increasing importance as a universal design tool for the robust control of linear and nonlinear systems. The strengths of sliding mode controllers result from the ease and flexibility of the methodology for their design and implementation. They provide inherent order reduction, direct incorporation of robustness against system uncertainties and disturbances, and an implicit stability proof. They also allow for the design of high performance control systems at low costs. SMC is particularly useful for electro-mechanical systems because of its discontinuous structure. In fact, since the hardware of many electro-mechanical systems such as electric motors prescribes discontinuous inputs, SMC has become the natural choice for direct implementation. The book is intended primarily for engineers and establishes an interdisciplinary bridge between control science, electrical and mechanical engineering.

Sustainable Energy and Technological Advancements Gayadhar Panda, R. T. Naayagi, Sukumar Mishra, 2022-03-24 This book contains selected papers presented at the First International Symposium on Sustainable Energy and Technological Advancements ISSETA 2021, which was organized by the Department of Electrical Engineering, NIT Meghalaya, Shillong, India, during September 24-25, 2021. The topics covered in the book mainly focus on the cutting-edge research domain with respect to sustainable energy technologies, smart building integration, and application of multiple energy sources, advanced power converter topologies, and their modulation techniques, and information and communication technologies for smart microgrids.

Control and Mechatronics Bodgan Wilamowski, J. David Irwin, 2018-10-08 The Industrial Electronics Handbook, Second Edition, combines traditional and newer, more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems such as neural networks, fuzzy systems, and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. Control and Mechatronics presents concepts of control theory in a way that makes them easily understandable and practically useful for engineers or students working with control system applications. Focusing more on practical applications than on mathematics, this book avoids typical theorems and proofs and instead uses plain language and useful examples to concentrate on control system analysis and design, comparing various techniques. Cover estimation, observation, and identification of the objects to be controlled to ensure accurate system models before production. Explore the various aspects of robotics and mechatronics. Other volumes in the set: Fundamentals of

Industrial Electronics Power Electronics and Motor Drives Industrial Communication Systems Intelligent Systems

Switched Reluctance Motor Drives Berker Bilgin, James Weisheng Jiang, Ali Emadi, 2019-04-29 Electric motors are the largest consumer of electric energy and they play a critical role in the growing market for electrification. Due to their simple construction, switched reluctance motors (SRMs) are exceptionally attractive for the industry to respond to the increasing demand for high efficiency, high performance, and low cost electric motors with a more secure supply chain. Switched Reluctance Motor Drives: Fundamentals to Applications is a comprehensive textbook covering the major aspects of switched reluctance motor drives. It provides an overview of the use of electric motors in the industrial, residential, commercial, and transportation sectors. It explains the theory behind the operation of switched reluctance motors and provides models to analyze them. The book extensively concentrates on the fundamentals and applications of SRM design and covers various design details such as materials, mechanical construction, and controls. Acoustic noise and vibration is the most well-known issue in switched reluctance motors, but this can be reduced significantly through a multidisciplinary approach. These methodologies are explained in two chapters of the book. The first covers the fundamentals of acoustic noise and vibration, so readers have the necessary tools to analyze the problems and explains the surface waves, spring-mass models, forcing harmonics, and mode shapes that are utilized in modeling and analyzing acoustic noise and vibration. The second applies these fundamentals to switched reluctance motors and provides examples for determining the sources of any acoustic noise in switched reluctance motors. In the final chapter, two SRM designs are presented and proposed as replacements for permanent magnet machines in a residential HVAC application and a hybrid electric propulsion application. It also shows a high power and compact converter design for SRM drives. Features: Comprehensive coverage of switched reluctance motor drives from fundamental principles to design, operation, and applications. A specific chapter on electric motor usage in industrial, residential, commercial, and transportation applications to address the benefits of switched reluctance machines. Two chapters address acoustic noise and vibration in detail. Numerous illustrations and practical examples on the design, modeling, and analysis of switched reluctance motor drives. Examples of switched reluctance motor and drive design. **The**

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