

On PM Tubular Linear Synchronous Motor Modelling

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Abstract: In this paper a new approach is made on PM tubular linear synchronous motor (PM-TLSM) modelling, considering a non linear model. This model allows the incorporation of PM elements characteristics. The straight forward approach induces robust simulation results for tubular linear machines, without resorting to complex variable transformations.

Key-Words: Linear machines, Tubular motor, Permanent-magnets, Modelling and Simulation.

1 Introduction

A linear motor applies force directly to a load, and does not require any intermediate mechanism to convert rotary motion into linear motion. Linear motors are capable of high speeds, fast acceleration, and accurate positioning.

The linear motors are employed in a wide range of electromechanical systems, such as robotics and factory automation, processing and packaging equipment, machine tools, transfer equipment, aerospace industry and transportation systems. An industrial applications issue of the linear actuators is present in [1].

When providing motion for people-moving devices or virtual reality capsules, it's important to provide a clean environment. The linear motors can offer significant advantages over conventional linear motion systems, such as hydraulic linear actuators, motors drives by cams, ball screws and belts, in terms of efficiency, low cost maintenance, no power loss in rotary-linear conversion, speed and force control and positional accuracy [2].

The linear synchronous machines (LSM) are selected for some applications, because they have significantly higher force production than linear induction and switched reluctance motors. This preference is justified by the improvements of permanent magnet materials and power electronics devices [3].

There are several topologies of LSM, these topologies vary with some parameters i.e. excitation mode, type and permanent magnets placement, slotted or slotless armature design.

A permanent magnet tubular linear synchronous motor (PM-TLSM) topology is considered in this paper. The different PM-TLSM topologies and their comparative studies are present in [4]-[6].

2 PM Tubular Linear Synchronous Motor

2.1 Development of linear motor geometries

To understand the linear machines modelling based on rotary machines knowledge, geometrically it can be "cut" along radial plane and "unrolled". This is exemplified in Figure 1(a) and Figure 1(b). Applying this process to a PM rotary synchronous motor a PM flat LSM is obtained. The PM-TLSM can be developed from flat linear motors by "rolling" them around their longitudinal axis. The permanent magnets, initially oriented along the length of the linear shaft, now form a stack of alternating magnetic polarity rings, Figure 1(c).

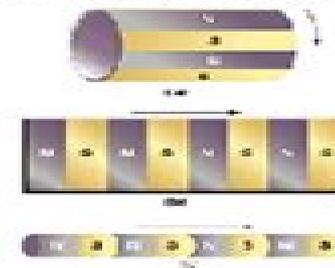


Fig.1: (a) Rotary motor; (b) Flat linear motor; (c) Tubular linear motor.

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Linear Synchronous Machines Amal Souissi, Imen Abdennadher, Ahmed Masmoudi, 2018-11-17 This book introduces readers to two major sustainable applications of linear synchronous machines wave energy conversion and magnetic levitation train technology To do so it begins with a state of the art review of linear machines covering induction and synchronous topologies and their applications with a particular focus on sustainable applications This is followed by an analysis of the electromagnetic modeling of linear synchronous machines the goal being to investigate their main features especially their force production capabilities **Renewable Energy in the Service of Mankind Vol I** Ali Sayigh, 2015-09-09 This book provides insights on a broad spectrum of renewable and sustainable energy technologies from the world's leading experts It highlights the latest achievements in policy research and applications keeping readers up to date on progress in this rapidly advancing field Detailed studies of technological breakthroughs and optimizations are contextualized with in depth examinations of experimental and industrial installations connecting lab innovations to success in the field The volume contains selected papers presented at technical and plenary sessions at the World Renewable Energy Congress the world's premier conference on renewable energy and sustainable development Held every two years the Congress provides an international forum that attracts hundreds of delegates from more than 60 countries **Linear Electric Machines, Drives, and MAGLEVs Handbook** Ion Boldea, 2017-12-19 Based on author Ion Boldea's 40 years of experience and the latest research **Linear Electric Machines Drives and Maglevs Handbook** provides a practical and comprehensive resource on the steady improvement in this field The book presents in depth reviews of basic concepts and detailed explorations of complex subjects including classifications and practical topologies with sample results based on an up to date survey of the field Packed with case studies this state of the art handbook covers topics such as modeling steady state and transients as well as control design and testing of linear machines and drives It includes discussion of types and applications from small compressors for refrigerators to MAGLEV transportation of linear electric machines Additional topics include low and high speed linear induction or synchronous motors with and without PMs with progressive or oscillatory linear motion from topologies through modeling design dynamics and control With a breadth and depth of coverage not found in currently available references this book includes formulas and methods that make it an authoritative and comprehensive resource for use in R D and testing of innovative solutions to new industrial challenges in linear electric motion energy automatic control **Third Harmonic Utilization in Permanent Magnet Machines** Kai Wang, Zi-Qiang Zhu, 2018-08-29 This book investigates the utilization of harmonics in the permanent magnet PM or rotor shape to improve the torque density of PM brushless AC machines including three phase inner rotor and outer rotor machines five phase machines dual three phase machines linear machines by means of analytical finite element analyses and as well as experimental validation The torque density can be improved while the torque ripple remains low in PM shaping utilizing the 3rd harmonic In this book the analytical expression of output torque is

derived for PM machines with rotor shape using the 3rd harmonic and then the optimal 3rd harmonic for maximizing torque is analytically obtained. The book compares the PM shape in surface mounted PM SPM machines and the rotor lamination shape in interior PM IPM machines utilizing the 3rd harmonic and it becomes clear that their shaping methods and amount of torque improvement are different. In a five phase PM machine the 3rd harmonic can be utilized in both the current waveform and PM shapes to further improve the output torque. For the dual three phase SPM machines without deteriorating the torque more than 30% when the optimal 3rd harmonic into both the current and PM shape are injected. The harmonics in airgap flux density have significant influence on the cogging torque, stator iron flux distribution and radial force between the rotor and stator. These effects have been investigated as well in this book.

Handbook of Research on Green Engineering Techniques for Modern Manufacturing Uthayakumar, M., Raj, S. Aravind, Ko, Tae Jo, Kumaran, S. Thirumalai, Davim, J. Paulo, 2018-11-16. Green manufacturing has developed into an essential aspect of contemporary manufacturing practices calling for environmentally friendly and sustainable techniques. Implementing successful green manufacturing processes not only improves business efficiency and competitiveness but also reduces harmful production in the environment. The *Handbook of Research on Green Engineering Techniques for Modern Manufacturing* provides emerging perspectives on the theoretical and practical aspects of green industrial concepts such as green supply chain management and reverse logistics for the sustainable utilization of resources and applications within manufacturing and engineering. Featuring coverage on a broad range of topics such as additive manufacturing, integrated manufacturing systems and machine materials, this publication is ideally designed for engineers, environmental professionals, researchers, academicians, managers, policymakers and graduate level students seeking current research on recent and sustainable practices in manufacturing processes.

Multidisciplinary Design Optimization Methods for Electrical Machines and Drive Systems Gang Lei, Jianguo Zhu, Youguang Guo, 2016-02-05. This book presents various computationally efficient component and system level design optimization methods for advanced electrical machines and drive systems. Readers will discover novel design optimization concepts developed by the authors and other researchers in the last decade including application oriented multi disciplinary multi objective multi level deterministic and robust design optimization methods. A multi disciplinary analysis includes various aspects of materials, electromagnetics, thermotics, mechanics, power electronics, applied mathematics, manufacturing technology and quality control and management. This book will benefit both researchers and engineers in the field of motor and drive design and manufacturing thus enabling the effective development of the high quality production of innovative high performance drive systems for challenging applications such as green energy systems and electric vehicles.

9th International Conference on Robotic, Vision, Signal Processing and Power Applications Haidi Ibrahim, Shahid Iqbal, Soo Siang Teoh, Mohd Tafir Mustaffa, 2016-09-29. The proceeding is a collection of research papers presented at the 9th International Conference on Robotics Vision Signal Processing Power Applications ROVISP 2016 by researchers scientists

engineers academicians as well as industrial professionals from all around the globe to present their research results and development activities for oral or poster presentations The topics of interest are as follows but are not limited to Robotics Control Mechatronics and Automation Vision Image and Signal Processing Artificial Intelligence and Computer Applications Electronic Design and Applications Telecommunication Systems and Applications Power System and Industrial Applications Engineering Education Science Abstracts ,1995 Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards ,2006 **Proceedings of the Eleventh International Symposium on Applied Electromagnetics and Mechanics, ISEM-Versailles A.**

Bossavit,Dominique Lesselier,A. Razek,2004 This publication contains a selection of 124 papers among the 165 full length contributions which were submitted on site at ISEM 2003 The objective of the symposia series is to vigorously promote the research in the field of electro mechanical systems The reader will we hope appreciate the variety of topics that were addressed This is what makes ISEM so stimulating for whoever is interested in the applications of electromagnetics and its opening toward many technical fields Yet this publication does not intend to be a mosaic of sub disciplines but aims at their integration and synergy This will be demonstrated by the present selection **Second International Conference on Power Electronics, Machines, and Drives (PEMD 2004)** ,2004 Proceedings ,1999 IEEE Transactions on Magnetics IEEE Magnetics Society,1997 IMACS '91 Robert Vichnevetsky,John James Henry Miller,1991 *Electrical & Electronics Abstracts* ,1997 **IMACS '91, 13th World Congress on Computation and Applied Mathematics** Robert Vichnevetsky,John J. H. Miller,1991 Proceedings Computer Arithmetic Algebra OOP **Industrial Applications in Power Systems, Computer Science, and Telecommunications** ,1996 **Industrial Applications in Power Systems, Computer Science, and Telecommunications** Marco De Sario,1996 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1997 Japanese Technical Abstracts ,1986

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