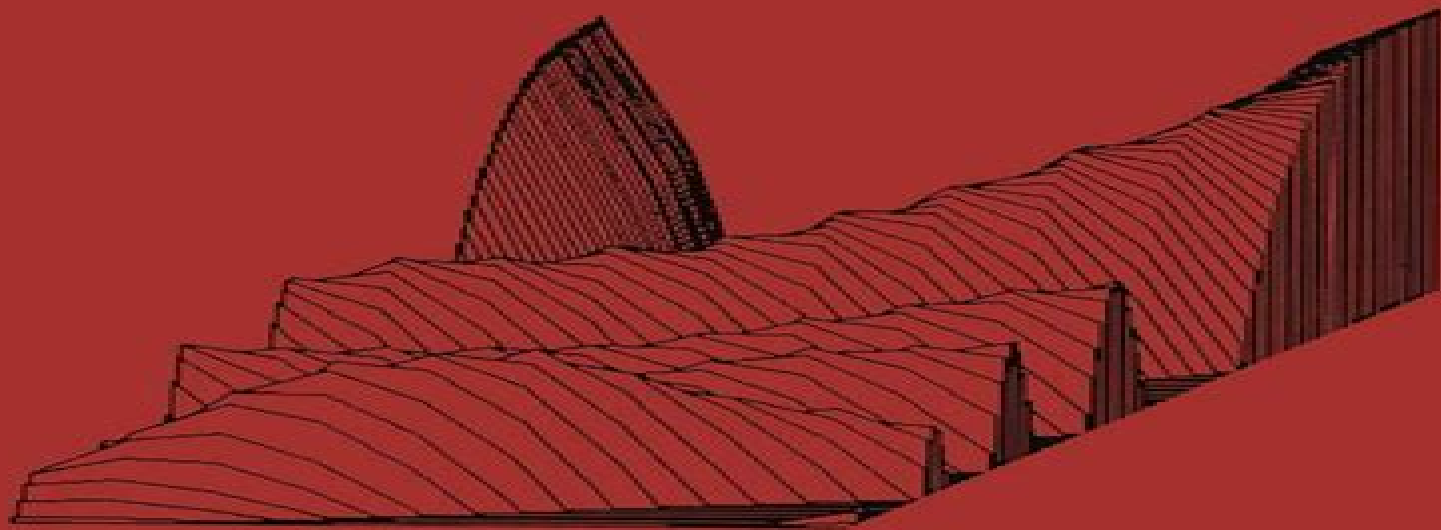


Vlado Ostović

# Dynamics of Saturated Electric Machines



Springer-Verlag

# Dynamics Of Saturated Electric Machines

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Mathematics and Computers in  
Simulation. International  
Conference, Réal-Paul Bouchard, Guy  
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## **Dynamics Of Saturated Electric Machines:**

**Dynamics of Saturated Electric Machines** Vlado Ostovic, 2012-12-06 This book is a result of the author's work which was initiated about a decade ago and which in the meantime has resulted in his Ph D Thesis and several technical papers. The book deals with accurate modeling of electric machines during transient and steady states, a topic which has been usually avoided in the literature. The modeling techniques herein take into account all machine peculiarities such as the type and connection of its windings, slotting and saturation in the iron core. A special emphasis in the book is given to the exact physical interpretation of all phenomena which influence the machine's transient behavior. Besides the Introduction, the book has five chapters. The second chapter describes basic concepts of the magnetic equivalent circuit theory and has examples of magnetic equivalent circuits of several types of machines with their node potential equations. In the third chapter, the transform matrices  $w$  and  $w$  of AC windings are derived. These matrices play a very important role in the magnetic equivalent circuit theory because they connect the quantities from the machine's magnetic equivalent circuit branch fluxes and mmfs with the machine's phase currents and fluxes. [Dynamics of Saturated Electric Machines](#) Vlado

Ostović, 1989-01-01 *Linear Electric Machines, Drives, and MAGLEVs Handbook* Ion Boldea, 2023-07-31 Linear motion is richly present in various industries from direct electric propulsion in urban and interurban people movers on wheels or on magnetic cushions MAGLEVs to indoor transport of goods conveyors etc through plunger solenoids to open hotel doors and as electromagnetic power switches to compressor drives by linear oscillatory permanent magnet PM motors smart phones integrated microphone and loudspeakers and controlled vehicles suspension etc. Besides the traditional rotary motor drives with mechanical transmissions which mean friction limitations weather dependent in traction heavy vehicles more losses positioning errors backlash in the process and higher maintenance costs to handle them linear motion in industry by direct electromagnetic forces is free of friction limitations for traction free of mechanical transmission and thus more efficient with less maintenance cost and fewer positioning errors backlash. This explains why they are used in so many applications already since the dramatic advancement of power electronics and digital control in the last four decades. Modeling performance design control and testing of linear electric machines LEMs show notable differences with respect to rotary electric motor drives which warrant a dedicated treatment of these aspects. The Second Edition First Edition 2013 concentrates on the above technical aspects of various types of LEMs in close relationship with specific applications via numerical examples of modeling design control and testing with ample representative results from literature industry and some of the author's contributions such as Technical field and circuit modeling of linear induction motors in flat configurations for low and high speeds with and without dynamic end effects and in tubular configurations short travel design control and testing Linear synchronous motor LSM drives in dc excited homopolar reluctance and superconducting excitation configurations for urban and interurban high speed vehicles propulsion and integrated propulsion and levitation in MAGLEVs modeling design and

control with full scale numerical examples with emphasis on lower KWh passenger Km at high speeds Flat and tubular linear permanent magnet PM synchronous motors L PMSMs mainly destined to industrial indoor transport for automation at high efficiency in clean rooms Linear flux modulation motors new breed suitable for very low speed applications due to higher thrust density Plunger solenoids in various applications including new valve PM actuators with millisecond response time Linear resonant PM oscillatory motors design control and testing mainly destined to compressors for higher efficiency in compact drives Attraction and repulsive force suspension levitation systems for MAGLEVs Active and passive guideway MAGLEVs in urban and superhigh speed interurban transport at lower Kwh per passenger km in lighter vehicles without wheels The numerous numerical design and control examples with practical specifications throughout the 23 chapters of the book allow the reader deep and fast access to a practical but thorough unitary good for comparisons methodology in designing and controlling LEMs for various applications

### **Mathematical Models for the Design of Electrical**

**Machines** Frédéric Dubas, Kamel Boughrara, 2021-03-15 This book is a comprehensive set of articles reflecting the latest advances and developments in mathematical modeling and the design of electrical machines for different applications The main models discussed are based on the i Maxwell Fourier method i e the formal resolution of Maxwell s equations by using the separation of variables method and the Fourier s series in 2 D or 3 D with a quasi Cartesian or polar coordinate system ii electrical thermal and magnetic equivalent circuit iii hybrid model In these different papers the numerical method and the experimental tests have been used as comparisons or validations

*Proceedings of the 10th International Conference on Rotor Dynamics - IFToMM* Katia Lucchesi Cavalca, Hans Ingo Weber, 2018-08-20 IFToMM conferences have a history of success due to the various advances achieved in the field of rotor dynamics over the past three decades These meetings have since become a leading global event bringing together specialists from industry and academia to promote the exchange of knowledge ideas and information on the latest developments in the dynamics of rotating machinery The scope of the conference is broad including e g active components and vibration control balancing bearings condition monitoring dynamic analysis and stability wind turbines and generators electromechanical interactions in rotor dynamics and turbochargers The proceedings are divided into four volumes This fourth volume covers the following main topics aero engines turbochargers eolian wind generators automotive rotating systems and hydro power plants

*Electric Machines and Drives* Miroslav Chomat, 2011-02-28 The subject of this book is an important and diverse field of electric machines and drives The twelve chapters of the book written by renowned authors both academics and practitioners cover a large part of the field of electric machines and drives Various types of electric machines including three phase and single phase induction machines or doubly fed machines are addressed Most of the chapters focus on modern control methods of induction machine drives such as vector and direct torque control Among others the book addresses sensorless control techniques modulation strategies parameter identification artificial intelligence operation under harsh or failure conditions and modelling of electric or

magnetic quantities in electric machines Several chapters give an insight into the problem of minimizing losses in electric machines and increasing the overall energy efficiency of electric drives

**12th International Conference on Vibrations in Rotating Machinery** Institute of Mechanical Engineers, 2020-10-22 Since 1976 the Vibrations in Rotating Machinery conferences have successfully brought industry and academia together to advance state of the art research in dynamics of rotating machinery 12th International Conference on Vibrations in Rotating Machinery contains contributions presented at the 12th edition of the conference from industrial and academic experts from different countries The book discusses the challenges in rotor dynamics rub whirl instability and more The topics addressed include Active smart vibration control Rotor balancing dynamics and smart rotors Bearings and seals Noise vibration and harshness Active and passive damping Applications wind turbines steam turbines gas turbines compressors Joints and couplings Challenging performance boundaries of rotating machines High power density machines Electrical machines for aerospace Management of extreme events Active machines Electric supercharging Blades and bladed assemblies forced response flutter mistuning Fault detection and condition monitoring Rub whirl and instability Torsional vibration Providing the latest research and useful guidance 12th International Conference on Vibrations in Rotating Machinery aims at those from industry or academia that are involved in transport power process medical engineering manufacturing or construction

*The Dynamics of Linear and Non-linear Systems* Pierre Naslin, 1965

*Computational Aspects of Electromechanical Energy Converters and Drives* International Association for Mathematics and Computers in Simulation. International Conference, Réal-Paul Bouchard, Guy Olivier, Ecole polytechnique (Montréal, Québec). Département de génie électrique et de génie informatique, 1993

*Handbook of Small Electric Motors* William H. Yeadon, Alan Yeadon, 2001-05-14 A complete definitive source for the design manufacture application and testing of small electric motors less than ten horsepower Gives motor design engineers test technicians and engineers top to bottom coverage of materials used in motor manufacturing as well as how to advice on selecting the right design and assembly method Includes a full section on motor applications

**Conference Record of the 1987 IEEE Industry Applications Society Annual Meeting** IEEE Industry Applications Society. Annual Meeting, 1987

**Conference Record, Industry Applications Society, IEEE-IAS Annual Meeting (1981)** IEEE Industry Applications Society, 2001

Proceedings, 1999

*Design, Analysis and Operation of IPMSMs for HEV Applications* Abdul Rehman Tariq, 2010

**Modelling and Simulation of Electrical Machines and Power Systems** International Association for Mathematics and Computers in Simulation, 1988 Since the previous Symposium in 1984 important developments have been made in the field of power electronics The use of solid state converters in association with electrical machines has steadily increased in numerous industrial applications The papers on this subject range from specialized models of particular devices to the automatic generation of computer programs in view of the study of systems containing electrical machines associated with solid state converters and their controls There are also papers describing global models of specific machine converters

assemblies The search for a better representation of electrical machines leads to studies of non linear equations to represent saturation Such phenomena as cross magnetization are presently under investigation Papers related to these questions are included in these proceedings Similarly in order to perform accurate simulations it is important to know the values of the parameters to be used Discussions of some identification methods are included Some developments in the domain of transmission lines transformers and electrical networks are also presented In addition to specialized papers on various subjects such as linear motors or reflectometers a very interesting paper on the representation of electrical machines on microcomputers is included *Bulletin of the Belgian Mathematical Society, Simon Stevin* ,1999 **JPIII** ,1996

Modeling of Field Regulated Reluctance Machines Joseph Daniel Law,1991 **A Nonlinear Model of an Auxiliary Commutated Variable Reluctance Machine Utilizing Magnetic Circuits** Jeffrey M. Brozek,1993 *Forthcoming Books*  
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