

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).

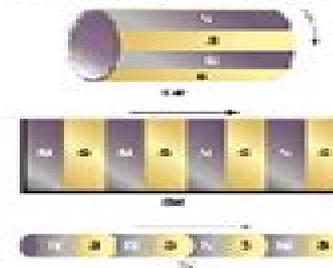


Fig.1: (a) Rotary motor; (b) Flat linear motor; (c) Tubular linear motor.

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web handicap ramp details 121 flat concrete florida curbs walks ramps surface king april 14th 2018 we have installed 1000 s of cubic yards of concrete over the years in all areas of concrete construction curb ramps handicap poured in place concrete tvl parisbytrain com 1 8

concrete wheelchair ramp photos ideas houzz - Nov 15 2022

web this client required a sloping ramp from driveway to front door for wheelchair access we built the ramp with permeable concrete pavers to alleviate run off rushing down slope the ramp is hidden from the street view by the wall be built which we later augmented with a boxwood hedge

how to build a concrete wheelchair ramp homesteady - Jun 22 2023

web jul 17 2017 cut the 2 by 4 or 2 by 6 wood and planks to create the form work that will hold the concrete in place dig deeper into the ground when placing the wood at the bottom of the ramp the concrete needs something to stop it you will also have something to screed the concrete with place stakes around the form work to ensure it will hold the concrete

concrete handicap wheelchair access ramps ada compliant handi ramp - Jan 17 2023

web this concrete wheelchair ramp system costs less than poured concrete and is much simpler to install designed to make modular classrooms offices churches and other public buildings ada compliant these deck ramps are made from a heavy duty steel tube frame and a concrete panel surface

engelliler İçin engelsiz rampa tübitak 4006 projesi Özgür - Sep 13 2022

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engelli rampası dwg projesi autocad projeler - Jul 11 2022

web ekim 30 2020 admin 0 yorum ramp disabled turning radius wheelchair rollstuhlgerecht wenderadius rayon de braquage chaise roulante raio de viragem handicapped disabilities behinderten handicapés sakatlık rampalari detaylar ve kesİntİlerİ İle kavşak tesİsİ autocad dosyası

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web where ramps and curb ramps are required 303 4 ramps and curb ramps are required along accessible routes to span changes in level greater than ½ elevators and under certain specified conditions platform lifts can be used as an alternative portions of accessible routes with running slopes steeper than 5 also must be treated as ramps

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web redi ramp is a versatile modular precast concrete ada ramp system our ada ramp system can be configured various ways to meet your unique needs for building access the redi ramp system is comprised of customized components designed to conform to the exact site requirements of your location

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web april 30th 2018 concrete deck ramps for ada compliant handicapped and disabled access our concrete deck ramp system is a tough and durable ramp system that looks and feels permanent but is actually modular and