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Based on author Ion Boldea's 40 years of experience and the latest research,

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date survey of the field.

Linear Electric Machines, Drives, and MAGLEVs Handbook ...

Linear Electric Machines, Drives, and
MAGLEVs: An Overview. Abstract: Linear
motion is rather common in the industry,
and linear electric motors (LEMs) can
provide it directly (without a mechanical

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transmission) through electromagnetic field forces. LEMs may be considered counterparts of rotary electric machines, but specific topologies lead to characteristics that differ (in some cases notably) from those of the latter.

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Linear Electric Machines, Drives, and MAGLEVs Handbook. About The Book: This modern handbook, equipped with case studies, covers topics such as modeling, stable and transient status, as well as the control, design, and testing of linear machines and drives.

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MAGLEVs Handbook About The Book:
This advanced handbook, furnished with
contextual investigations, covers points,
for example, displaying, steady and
transient status, just as the control, plan,
and testing of direct machines and
drives.

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AC currents are predominant in LEMs, which are, in general, brushless. f38
Linear Electric Machines, Drives, and MAGLEVs Handbook An ac copper conductor in air has a penetration depth of its own field of $\delta_{co} = \sqrt{2 / \omega \mu_0 \sigma}$; $\sigma_{copper} =$

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$5.55 \cdot 10^7 \Omega - 1\text{m} - 1 \mu 0 \cdot \omega 1 \cdot \sigma$ copper
(1.107) For $f_1 = 60 \text{ Hz}$, $\delta_{\text{co}} = 6.16 \cdot 10^{-3} \text{ m}$.

Linear electric machines, drives, and MAGLEVs handbook ...

THE linear induction motor (LIM) has served as an excellent option for urban transport traction drive systems, due to

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its supreme ability to generate direct forward thrust without using mechanical...

Linear Electric Machines, Drives, and MAGLEVs: An Overview ...

This state-of-the-art handbook covers most progressive and oscillatory linear electric machines (LEMs), drives, and

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MAGLEVS. It discusses basic and advanced modeling, steady state, transients, control, design and testing of linear machines and drives with numerous case studies related to representative applications.

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Abstract: The history of linear motors is a history of shape. Once having departed from the cylindrical geometry of rotating machines, a wider world of three-dimensional design becomes possible. Linear induction motors dominate the field of linear drives to the same extent as does the rotary induction machine in relation to more

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complicated adjustable-speed motors.

Linear electric machines—A personal view - IEEE Journals ...

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Control of Drives. Slides for the
workshop (July 24-26, 2019) Summary
Slide for July 24, 2019 (Click ...

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Vector Control of Drives | CUSP

Linear Electric Machines, Drives, and MAGLEVs Handbook (Boldea, I.; 2013)
[Book News] ... The author of this book presents a new handbook devoted to a wide family of linear electric machines (LEMs ...

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Handbook

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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.

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A linear motor is an electric motor that

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has had its stator and rotor "unrolled" thus instead of producing a torque it produces a linear force along its length. However, linear motors are not necessarily straight. Characteristically, a linear motor's active section has ends, whereas more conventional motors are arranged as a continuous loop. A typical mode of operation is as a Lorentz-type

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actuator, in which the applied force is linearly proportional to the current and the magnetic field $\{\backslashdispl$

Linear motor - Wikipedia

The MXB-P heavy duty linear actuators use a profiled rail bearing and belt drive train to achieve heavy loads and high speeds. B3S Ball Screw Linear Actuators

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Tolomatic B3S ball screw linear actuators have an enclosed ball bearing design that accommodates heavy loads, high bending moments to deliver long service life.

Electric Linear Actuators | by Tolomatic (Tol-O-Matic)

Packed with case studies, this state-of-

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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.

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Containing approximately 200 problems (100 worked), the text covers a wide range of topics concerning electrical

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machines, placing particular emphasis upon electrical-machine drive applications. The theory is concisely reviewed and focuses on features common to all machine types.

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Linear Induction Machines --2.2. Linear

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Synchronous Motors for Transportation

--2.3. Industrial Usage Linear

Synchronous Machines --2.4. Solenoids
and Linear Oscillatory Machines --2.5.

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