

## Linear Electric Machines Drives And Maglevs Handbook

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Book Description. Based on author Ion Boldea's 40 years of experience and the latest research, Linear Electric Machines, Drives, and Maglevs Handbookprovides 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.

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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 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 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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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. It includes discussion of types and applications - from small compressors for refrigerators to MAGLEV transport - from linear electric machines.

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Linear Electric Machines, Drives, and MAGLEVs Handbook

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 complicated adjustable-speed motors.

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

The Electrical Machines & Drives (EMD) group has helped to achieve many synergies in terms of the demand for higher power densities, increased energy efficiency, improved reliability and reduced maintenance, and greater functionality. The expertise, research and design strengths of the EMD Group are demonstrated by the research awards the Group have won which have been in excess of £42m over the last ten years (2009-19) from a mix of government funded research and industry.

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A linear motor is an electric motor that 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.

Linear motor - Wikipedia

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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

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