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Rising Force: The Magic of Magnetic Levitation (Hardback)

By James D. Livingston

HARVARD UNIVERSITY PRESS, United States, 2011. Hardback. Book Condition: New. 211 x 147 mm. Language: English . Brand New Book. From Peter Pan to Harry Potter, from David Copperfield to levitating toys, there is magic in conquering gravity. In this first-ever popular introduction to maglev -- the use of magnetic forces to overcome gravity and friction--James D. Livingston takes lay readers on a journey of discovery, from basic concepts to today's most thrilling applications. The tour begins with examples of our historical fascination with levitation, both real and fake. At the next stop, Livingston introduces readers to the components of maglev: gravitational and magnetic forces in the universe, force fields, diamagnetism and stabilization, superdiamagnetism and supercurrents, maglev nanotechnology, and more. He explores the development of the superconductors that are making large-scale levitation devices possible, and the use of magnetic bearings in products ranging from implanted blood pumps to wind turbines, integrated circuit fabrication, and centrifuges to enrich uranium. In the last chapters, we arrive at the science behind maglev transportation systems, such as Chinese trains that travel 250 miles per hour without touching the tracks. Packed with fascinating anecdotes about the colorful personalities who have fought friction by fighting...



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Reviews

An incredibly amazing ebook with perfect and lucid answers. It is written in basic terms and never difficult to understand. It's been written in an exceptionally basic way and it is only right after I finished reading this ebook in which it in fact modified me, affected the way I really believe.

-- **Beverly Hoppe**

Extremely helpful for all class of individuals. Better than never, though I am quite late in starting reading this one. I realized this publication from my dad and he suggested this ebook to discover.

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