



Your brain,
just brighter

Speed
Problem Solving



Memory
Attention
Flexibility

Start Training →

lumosity

Like 14m

Follow 77.6K followers

Follow 102k

Search by keyword

find

PHYSICS

What Happens When You Drop A Magnet Through A Copper Tube?

May 13, 2014 | by Justine Alford

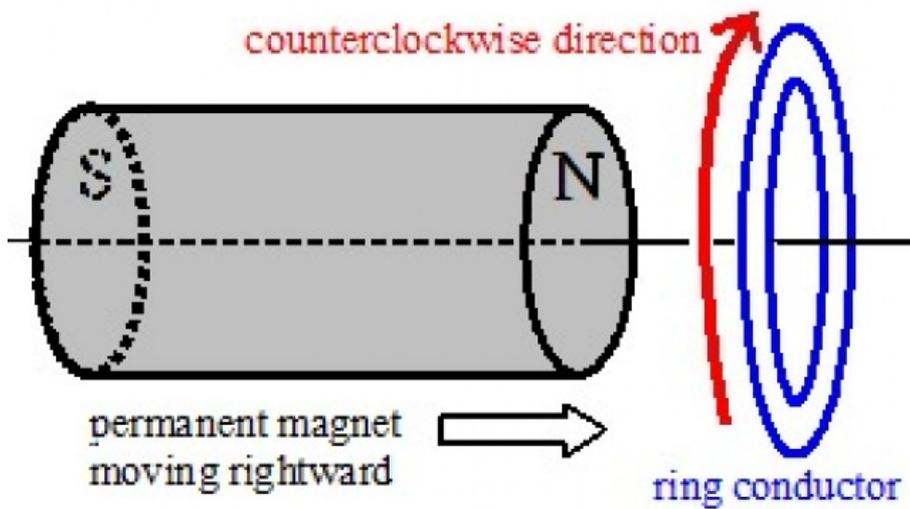


photo credit: 老陳, via Wikimedia Commons.

Share 82K Tweet 606 Pin it 69 Reddit 38 +1 122

Ahh, Physics, you never cease to astound me. Today's awesome science demo is brought to you by Lenz's Law. [Heinrich Emil Lenz](#) was a German physicist that formulated a law of electromagnetic induction back in 1833. The most stripped down [explanation](#) of the law is that when a current is induced in a conductor, a magnetic field is generated that opposes the action that produces the current.

Check out a [demonstration](#) of this in action in the YouTube video below:

In sum: the magnet induced a current in the copper pipe, which in turn produced a magnetic field. The direction of this current then opposed the change in the magnet's field, resulting in the magnet being repelled and thus falling more slowly. Neat.

Choose your poison

Editor's Blog

Environment

Technology

Space

Health and Medicine

The Brain

Plants and Animals

Physics

Chemistry

More Science!

by Taboola



Molten lava meets a can of Coke



NSFL: Doctors Remove 19 Centimeter Long Eye Worm



Stressed Out Snake Eats Itself



Octopus Vs. Jar



Watch Water Boil And Freeze At The Same Time



The Strangest Defence Mechanisms In The Animal Kingdom

MEMORY OF A SIMPLER TIME

Web2PDF

converted by Web2PDFConvert.com

From The Web

Sponsored Content by Taboola



20/20 Vision NATURALLY? (shocking trick FIXES your vision)

Restore My Vision



Check Out An Iraq Veteran's Reunion With His Old Dog

PEOPLE.com



EXCLUSIVE: The Newest Way to Save BIG on Must Have Products

QuiBids



7 Freelance Jobs You can Do At Night For Extra Profit

Stayathome.com



Managing Severe Allergies

LiveStrong



Is THIS The Ghost Of Dale Earnhardt?? Tell Us!

Penn's Post

tags Lenz's law



email sign up

POPULAR POSTS



Eyes on Earth: The ISS HD Earth Viewing Experiment

space



Antibiotic Resistance Now A Global Threat According To Latest WHO Report

health and medicine



How To Build A Smartphone Microscope Stand for \$10

technology

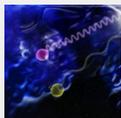


Fire Tornadoes: One More Way Earth Is Trying To Kill You

environment

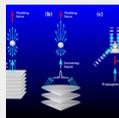


MORE PHYSICS ARTICLES



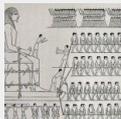
Quantum Switches Controlled By Single Photons

physics



Scientists Create Most Powerful Acoustic Tractor Beam To Date

physics



Mystery Of How The Egyptians Moved Pyramid Stones Solved

physics



Over 200 Girls in Nigeria Kidnapped Because They Attended School

physics

Simulations Reveal Why Galactic Collisions Result In Starbursts

Replacing The Moon With Other Planets



LIKE US ON FACEBOOK If you like IFLS, you'll love these pages too!

I Fucking Love Science Science is Awesome

The Universe
Evolution
The Earth Story

 Start download



Free App
Fast & Secure
Advertisement

get the newsletter [sign up ▶](#) [Like](#) 14m [Follow](#) 77.6K followers [Follow](#) 102k



home
contact