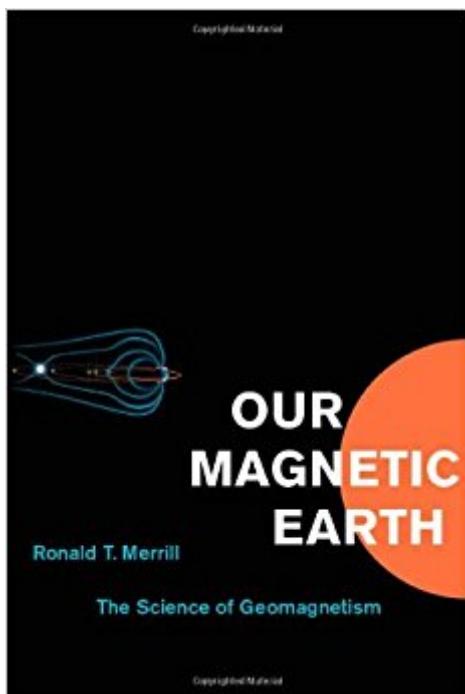


The book was found

Our Magnetic Earth: The Science Of Geomagnetism



Synopsis

For the general public, magnetism often seems more theÃ Â provinceÃ Â ofÃ Â new ageÃ Â quacks, movie mad scientists, and grade-school teachers than an area of actual, ongoing scientific inquiry. But as Ronald T. Merrill reveals inÃ Â Our Magnetic Earth, geomagnetism really is an enduring, vibrant area of science, one that offers answers to some of the biggest questions about our planetÃ¢â€žs pastÃ¢â€ž and maybe even its future.

Book Information

Hardcover: 272 pages

Publisher: University Of Chicago Press; First Edition edition (November 15, 2010)

Language: English

ISBN-10: 0226520501

ISBN-13: 978-0226520506

Product Dimensions: 6 x 1 x 9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 3.9 out of 5 stars 8 customer reviews

Best Sellers Rank: #972,743 in Books (See Top 100 in Books) #106 inÃ Â Books > Science & Math > Physics > Electromagnetism > Magnetism #225 inÃ Â Books > Science & Math > Earth Sciences > Geophysics #2557 inÃ Â Books > Textbooks > Science & Mathematics > Earth Sciences

Customer Reviews

Ã¢â€ž“Ronald Merrill skillfully weaves his professional expertise in geomagnetism with related scientific issues and personal anecdotes to create a broad intellectual tapestry that, in its many fascinating diversions and anecdotes, gives insight into how the mind actually works while exploring a question of abiding interest. Reading this book will be a learning experience for almost everyoneÃ¢â€ž and an unfailingly pleasant one at that!Ã¢â€ž (Robert Coe, University of California, Santa Cruz)Ã¢â€ž“Part science, part history of science, and part personal experience, Our Magnetic Earth seamlessly draws together a variety of seemingly unrelated topicsÃ¢â€ž from climate to space weather to geologic time to the SunÃ¢â€ž and under the grand heading of magnetism. [Readers will be amazed to learn] just how much the field of magnetism has contributed to earth sciences and to our current understanding of our planetÃ¢â€žs past, while they also enjoy the many wonderful anecdotes from working scientists with which Merrill sprinkles the book. Ultimately, we come away from this book understanding both much, much more about magnetism

and about the importance of scientific literacy in today's society. (Bruce Moskowitz, University of Minnesota) "If [you're looking for a gift for] a self-described geek drawn to science books like an iron filing to a magnet, then consider *Our Magnetic Earth*, a fascinating explanation of that mysterious force." (Julia Keller Chicago Tribune) "Highly readable. . . . Merrill laces his narrative with discourses on the philosophy of science, and with ripostes to creationist attacks on evolution and the antiquity of Earth. I'll recommend this book to students eager to know how science is done, and anyone wondering what makes a compass needle point north." (Natural History) "There really is no other popular book in recent years that covers the broad reach of geomagnetism as competently and as entertainingly as does this one." (Metascience)

Ronald T. Merrill is professor emeritus of earth and space sciences at the University of Washington. In 2002 he was awarded the John Adam Fleming Medal of the American Geophysical Union.

Good book.

Interesting and easy to read book, i enjoy to read it.The autor keep the reader's attention all the time, a valuable thing.As divulgation as reference book id very enjoyable.

ASIN:022600659X *Our Magnetic Earth: The Science of Geomagnetism*]] DILLON says: "For a clear, non-mathematical, yet authoritative introduction to geomagnetism, this book seems hard to beat." have to agree; but Dillon is not so good when he gets into the Velikovsky fairy tales. ALGO41 is a good summary. RANDY says: "I am an engineer and very interested in science I find this book close to unreadable." I'm also an engineer interested in science, and I found the book quite readable. CHARLIE says: "I enjoyed a good job of covering the details and history of the current knowledge of the subject." but PETER BUTCHKO says: "frustrating and disappointing not well written a high-school science teacher better-than-average science and mathematical background in the subject." I have to agree with Charlie. Butchko's background seems wasted. ARTIST says: "[C]laimed to describe the science with the vernacular not the same spoken here. This book could have used many more illustrations" I thought the book was as "vernacular" as subject allows. The book has all the illustrations it needs -- it is not intended to be a "picture book:". However, the author of the book doesn't seem to realize that you can prove

whatever you set out to prove with a computer, since: At page 103, he says the dynamo computer models of geomagnetism are often "dramatically different", but this somehow proves the "dynamo theory" of geomagnetism. If dramatically different models get the same answer, the parameters must have been twiddled with. And, at page 178, he says that "most" global climate warming models for this century predict a "range between 1 C and 6 C." Seems like this range of six to one -- working from the same data even with parameter twiddling -- could just as well prove there is no basis for global warming.

I enjoyed this book. The author does a good job of covering the details and history of the current knowledge of the subject.

The Author starts by being close to incomprehensible in the first chapter. It gets interesting in some of his explanations of how the earth's magnetism arises in the flow of iron in the core but he often descends into discussing academic disputes leading up to current thinking. The section on migration of fish birds and animals is quite interesting but again sinks into academic discussion. All in all, even though I am an engineer and very interested in science I find this book close to unreadable.

As with many of these scientific journals this one claimed to describe the science with the vernacular. I'm not sure which vernacular is spoken by Mr. Merrill's family but it's certainly not the same spoken here. This book could have used many more illustrations. JVK

This book is an interesting, wide-ranging account of topics that can be linked in some way to planetary and/or solar magnetic fields. Thus there is a discussion of plate tectonics because much of what we know is inferred from the magnetic properties of rocks, which are an indication of their position on earth when they were formed. At the same time, both plate movements and the earth's magnetic fields are dependent on the composition and temperatures of the layers of our earth. Merrill employs an informal style, laced with personal anecdotes and just enough material on personalities. He is really good in tracing how theories have evolved. He tries to be careful in distinguishing the degree of conviction science has about various theories; however, there is much more to be learned about plate tectonics than this book implies (see the discussion of ridge-push vs. slab pull, and the problems with both theories, in the Wikipedia article on Mid ocean ridge, formation processes). There were times I felt my understanding was too superficial, but this may be because I suffer from lack of a good background in physics, and perhaps also because there are many holes

in what even the scientific community understands. The easiest chapter was on the use of magnetic sensors by animals. Most birds use such sensors as ONE aid to their navigation. Even some single celled animals employ sensors, and there is more than one kind of sensor. In some cases the magnetic sensors piggy back on the neural pathways used to see light, so the magnetic information is seen visually.

[Download to continue reading...](#)

Our Magnetic Earth: The Science of Geomagnetism Seashells i-Clip Magnetic Page Markers (Set of 8 Magnetic Bookmarks) The Gathering: ITÃ¢â€šOUR EARTH TOO - Book 2 (It's Our Earth Too) Inheritance: How Our Genes Change Our Lives--and Our Lives Change Our Genes The Mind-Gut Connection: How the Hidden Conversation Within Our Bodies Impacts Our Mood, Our Choices, and Our Overall Health Freezing Colloids: Observations, Principles, Control, and Use: Applications in Materials Science, Life Science, Earth Science, Food Science, and Engineering (Engineering Materials and Processes) A Project Guide to Volcanoes (Earth Science Projects for Kids) (Earth Science Projects for Kids (Library)) Living with the Earth, Third Edition: Concepts in Environmental Health Science (Living with the Earth: Concepts in Environmental Health Science) Glencoe Earth & Space iScience, Grade 6, Science Notebook, Student Edition (EARTH SCIENCE) McDougal Littell Earth Science: Heath Earth Science Grades 9-12 1999 Holt Earth Science California: Holt Earth Science Student Edition 2007 Vaccine Epidemic: How Corporate Greed, Biased Science, and Coercive Government Threaten Our Human Rights, Our Health, and Our Children Peeling The Earth Like An Onion : Earth Composition - Geology Books for Kids | Children's Earth Sciences Books Magnetic Resonance Scanning and Epilepsy (Nato Science Series A:) Ley Lines and Earth Energies: A Groundbreaking Exploration of the Earth's Natural Energy and How It Affects Our Health Holt Science Spectrum: Physical Science with Earth and Space Science: Student Edition 2008 Incredible Earth Science Experiments for 6th Graders - Science Book for Elementary School | Children's Science Education books Who Rules the Earth?: How Social Rules Shape Our Planet and Our Lives Our Love Is Our Power: Working With the Net of Light that Holds the Earth Glencoe Earth iScience, Grade 6, Student Edition (EARTH SCIENCE)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)