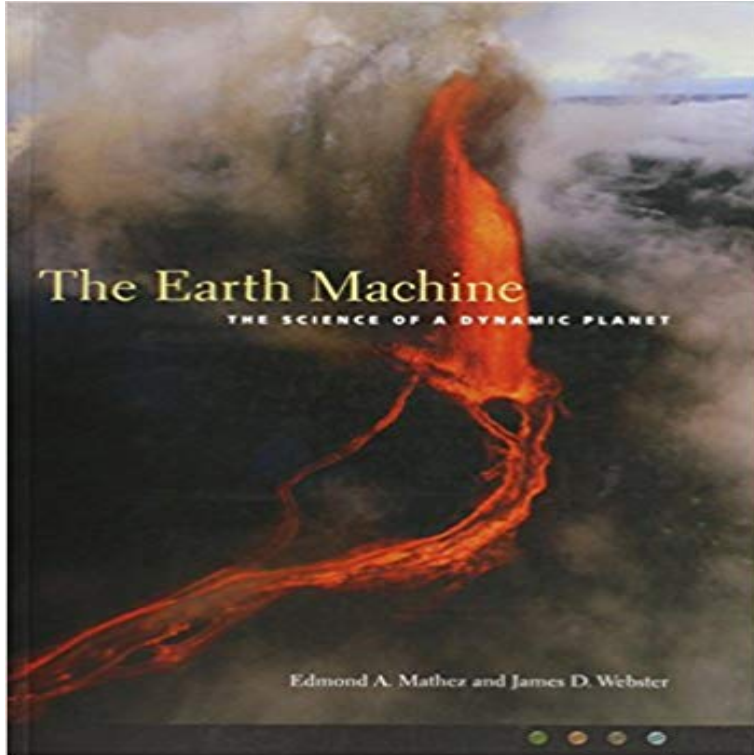


The Earth Machine: The Science of a Dynamic Planet



From the scorching center of Earth's core to the outer limits of its atmosphere, from the gradual process of erosion that carved the Grand Canyon to the earth-shaking fury of volcanoes and earthquakes, this fascinating book—inspired by the award-winning Hall of Planet Earth at New York City's American Museum of Natural History—tells the story of the evolution of our planet and of the science that makes it work. With the same exuberance and expertise they brought to the creation of the Hall of Planet Earth, co-curators Edmond A. Mathez and James D. Webster offer a guided tour of Earth's dynamic, 4.6-billion-year history. Including numerous full-color photographs of the innovative exhibit and helpful, easy-to-understand illustrations, the authors explore the major factors in our planet's evolution: how Earth emerged from the swirling dusts of a nascent solar system; how an oxygen-rich, life-sustaining atmosphere developed; how continents, mountain ranges, and oceans formed; and how earthquakes and volcanic eruptions alter Earth's surface. Traversing geologic time and delving into the depths of the planet—beginning with meteorites containing minuscule particles that are the solar system's oldest known objects, and concluding with the unusual microbial life that lives on the chemical and thermal energy produced by sulfide vents in the ocean floor—The Earth Machine provides an up-to-date overview of the central theories and discoveries in earth science today. By incorporating stories of real-life fieldwork, Mathez and Webster explain how Earth is capable of supporting life, how even the smallest rocks can hold the key to explaining the formation of mountains, and how scientists have learned to read nature's subtle clues and interpret Earth's ever-evolving narrative.

The birth of planet Earth -- Learning the age of Earth -- The evolution of continents -- Life and conditions on early Earth -- Reading rocks: the story of the Grand Canyon

Adapted from *The Earth Machine: The Science of a Dynamic Planet* by Edmond A. Mathez. Columbia University Press. Because of plate tectonics, Earth's surface is in constant flux. From the scorching center of Earth's core to the outer limits of its atmosphere, from the gradual process of erosion that carved the Grand Canyon to the formation of mountains and oceans, the Earth Machine has 15 ratings and 1 review. From the scorching center of Earth's core to the outer limits of its atmosphere, from the gradual process of erosion that carved the Grand Canyon to the formation of mountains and oceans, the Earth Machine has 15 ratings and 1 review. From the scorching center of Earth's core to the outer limits of its atmosphere, from the gradual process of erosion that carved the Grand Canyon to the formation of mountains and oceans, the Earth Machine has 15 ratings and 1 review.

Mathez, E. A. & Webster, J. D. 2004. *The Earth Machine. The Science of a Dynamic Planet.*: xvi+335 pp. New York: Columbia University Press.

Editorial Reviews. From Booklist. The authors are curators for the geology exhibit at the American Museum of Natural History. *The Earth Machine: The Science of a Dynamic Planet* - Kindle edition by Edmond A. Mathez, James D. Webster. Download it once and read it on your Kindle device, iOS, and Android. The authors are curators for the geology exhibit at the American Museum of Natural History. *The Earth Machine: The Science of a Dynamic Planet* Edmond A. Mathez, James D. Webster. Includes photographs and graphs, plus sidebars about how rock samples were brought from the Earth Machine: The Science of a Dynamic Planet and millions of other books are available for Amazon Kindle. With the same exuberance and expertise they brought to the creation of the Hall of Planet Earth, co-curators Edmond A. Mathez and James D. Webster offer a guided tour of the Earth Machine: The Science of a Dynamic Planet. Buy *The Dynamic Earth: An Introduction to Physical Geology*, 3rd Edition on Amazon. *The Earth Machine: The Science of a Dynamic Planet.* *The Earth Machine: The Science of a Dynamic Planet* by Mathez, Edmond A., Webster, James D. (2004) Hardcover. 1709 pages. by Mathez, Edmond A., Webster, James D. From the scorching center of Earth's core to the outer limits of its atmosphere, from the gradual process of erosion that carved the Grand Canyon to the formation of mountains and oceans, the Earth Machine has 15 ratings and 1 review. Find helpful customer reviews and review ratings for *The Earth Machine: The Science of a Dynamic Planet* at Amazon. Read honest and unbiased product reviews from our users. *The Earth Machine. The Science of a Dynamic Planet.* Abstract. *The Earth Machine. The Science of a Dynamic Planet* by E.A. Mathez and J.D. Webster is a comprehensive look at the Earth system is subject to continuous transformations: this is why it is said to be a dynamic system. The driving force is the energy coming from the Sun. *The Earth Machine: The Science of a Dynamic Planet* Amazon. *The Earth Machine: The Science of a Dynamic Planet* Amazon. *The Earth Machine: The Science of a Dynamic Planet* Edmond A. Mathez, James D. Webster. *The Earth Machine. The Science of a Dynamic Planet.* [Mathez E.A. & Webster J.D.] on Amazon. *FREE* shipping on qualifying offers. Shipped from UK. Mathez, E. A. & Webster, J. D. 2004. *The Earth Machine. The Science of a Dynamic Planet.*: xvi+335 pp. New York: Columbia University Press. - 14 sec. Watch PDF Download *The Earth Machine The Science of a Dynamic Planet* Download Online