

At The Earths Core

Describes how the Earth was formed, explains how scientists study the Earth's interior, and discusses how the makeup and movement of the mantle and core affect the surface.

Soon to be a Netflix Original Series! "Wildly imaginative." –President Barack Obama on The Three-Body Problem trilogy This near-future trilogy is the first chance for English-speaking readers to experience this multiple-award-winning phenomenon from Cixin Liu, China's most beloved science fiction author.

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In The Dark Forest, Earth is reeling from the revelation of a coming alien invasion-in just four centuries' time. The aliens' human collaborators may have been defeated, but the presence of the sophons, the subatomic particles that allow Trisolaris instant access to all human information, means that Earth's defense plans are totally exposed to the enemy. Only the human mind remains a secret. This is the motivation for the Wallfacer Project, a daring plan that grants four men enormous resources to design secret strategies, hidden through deceit and misdirection from Earth and Trisolaris alike.

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Three of the Wallfacers are influential statesmen and scientists, but the fourth is a total unknown. Luo Ji, an unambitious Chinese astronomer and sociologist, is baffled by his new status. All he knows is that he's the one Wallfacer that Trisolaris wants dead. The Three-Body Problem Series The Three-Body Problem The Dark Forest Death's End Other Books Ball Lightning Supernova Era To Hold Up The Sky (forthcoming) At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Geothermal energy stands out because it can

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be used as a baseload resource. This book, unlike others, examines the geology related to geothermal applications. Geology dictates (a) how geothermal resources can be found, (b) the nature of the geothermal resource (such as liquid- or vapor-dominated) and (c) how the resource might be developed ultimately (such as flash or binary geothermal plants). The compilation and distillation of geological elements of geothermal systems into a single reference fills a notable gap.

When people go looking for hell, they go underground. Dante, Aeneas, and Odysseus all

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journeyed beneath the earth to find the underworld, a place where the dead are tortured according to their sins. Buffy the Vampire Slayer had to deal with a huge underground pit infested with demons below her high school called the Hellmouth. And when Homer Simpson ate the forbidden donut for which he'd sold his soul to the devil, he was sucked through a fiery hole in the ground. Though humans actually haven't gone more than 7.5 miles into the earth, we associate this mysterious underground realm with darkness and death, and the depths of the earth's interior remain an inspiration

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for writers and artists trying to imagine hell. Why Hell Stinks of Sulfur uses subterranean mythology as a point of departure to explore the vast world that lies beneath our feet. Geologist Salomon Kroonenberg takes us on an expedition that begins in Dante's Inferno and continues through Virgil, Da Vinci, Descartes, and Jules Verne. He investigates the nine circles of hell, searches a lake near Naples for the gates of hell used by Aeneas, and turns a scientific spotlight on the many myths of the underworld. He uncovers the layers of the earth's interior one by one, describing the

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variety of gasses, ores, liquids, and metals that add to the immense variety of color that can be found below us. Kroonenberg views the inside of the earth as a living ecosystem whose riches we are only beginning to discover, and he warns against our thirst for natural resources exhausting the earth. From the underground rivers and lakes that have never seen the light of day to the story of Saint Barbara—the patron saint of mineworkers—Kroonenberg's pursuit of the geological foundations of hell is a fascinating journey to the center of the earth.

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The Earth's Core

Constitution of the Earth's Interior

A Journey from the Earth's Core to the Sun

From the Earth's Core to Outer Space

Thriving on Our Changing Planet

Years ago David Innes and Abner Perry bored straight down through five hundred miles of the earth's crust and landed in Pellucidar, the savage, primeval world that lies at the center of the earth. This is the story of their continuing adventures in the timeless land of perpetual noon and their encounters with the hideous creatures and savage men who pursue them. Although they encounter enemies at every turn, David and Abner find a few loyal friends

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as they embark on exhilarating adventures. Deep within the Earth a hidden world of dangers and unimaginable creatures thrives! This is Pellucidar, the world at the Earth's core, one of the most fascinating and beloved creations of science fiction author Edgar Rice Burroughs! Ruled by the telepathic and blood-thirsty Mahars, all of Pellucidar lives in fear of the pterosaurian terrors, but the flesh-eating monsters might have met their match in Dian the Beautiful, whose indomitable will could lead all of Pellucidar to rise up in revolt of their savage oppressors! This volume collects the full Pellucidar / Land That Time Forgot: Terror From the Earth's Core 3-issue series and the Pellucidar One Shot as well as

a covers gallery and behind the scenes extra material!

Pellucidar Edgar Rice Burroughs - Pellucidar is a 1915 fantasy novel by American writer Edgar Rice Burroughs, the second in his series about the fictional "Hollow Earth" land of Pellucidar. It first appeared as a five-part serial in All-Story Weekly from May 1 to 29, 1915. It was first published in book form in hardcover by A. C. McClurg in September, 1923. A map by Burroughs of the Empire of Pellucidar accompanied both the magazine and book versions. David Innes and his captive, a member of the reptilian Mahar master race of the interior world of Pellucidar, return from the surface world in the

Iron Mole invented by his friend and companion in adventure Abner Perry. Emerging in Pellucidar at an unknown location, David frees his captive. He names the place Greenwich and uses the technology he has brought to begin the systematic exploration and mapping of the unknown land while searching for his lost companions, Abner, Ghak, and Dian the Beautiful. He soon encounters and befriends a new ally, Ja the Mezop of the island country of Anoroc; later he finds Abner, from whom he learns that in his absence the human revolt against the Mahars has not been going well. In a parlay with the Mahars David bargains for information of his love Dian and his enemy Hooja the Sly One, which his foes agree to

supply in return for the book containing the Great Secret of Mahar reproduction that David stole and hid in the previous novel. David undertakes to recover it, only to find that Hooja has been there before him and claimed Dian as his own reward of the Mahars! Now he has to track down and defeat the sly one before resuming the human war of independence. Ultimately this is accomplished, and with the aid of the resources David has brought from the surface world he and Abner succeed in building a confederacy of human tribes into an "Empire of Pellucidar" that wipes out the Mahar cities and establishes a new human civilization in their place. Provides simple information about Earth's layers,

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including the content of the core, the planet's magnetic field, and plate tectonics.

The Earth's Mantle

Earth's Core and Lower Mantle

Deep Carbon

AT THE EARTHS CORE Illustrated

Edgar Rice Burroughs' at the Earth's Core

Paul Roberts' research contributions are remarkable in their diversity, depth and international appeal. Papers from the Paul Roberts' Anniversary meeting at the University of Exeter are presented in this volume. Topics include geomagnetism and dynamos, fluid mechanics and MHD,

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superfluidity, mixed phase regions, mean field electrodynamics and the E

Edgar Rice Burroughs' 1914 pulp fantasy epic comes to life! Follow David Innes and Abner Perry as they take their "iron mole" five hundred miles below the Earth's crust to a world known as Pellucidar. Thrill as they cross paths with the evil Mahar, the ape-like Sagoths, and all manner of prehistoric creatures . . . as well as the lovely Dian the Beautiful! More than simply an epic adventure, *At the Earth's Core* is also one of Burroughs' most compelling love stories. Developed by three experts to coincide with

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geology lab kits, this laboratory manual provides a clear and cohesive introduction to the field of geology. Introductory Geology is designed to ease new students into the often complex topics of physical geology and the study of our planet and its makeup. This text introduces readers to the various uses of the scientific method in geological terms. Readers will encounter a comprehensive yet straightforward style and flow as they journey through this text. They will understand the various spheres of geology and begin to master geological outcomes which derive from a growing knowledge of the tools

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and subjects which this text covers in great detail.

At the Earth's Core is a 1914 fantasy novel by American writer Edgar Rice Burroughs, the first in his series about the fictional "hollow earth" land of Pellucidar. It first appeared as a four-part serial in All-Story Weekly from April 4-25, 1914

Edgar Rice Burroughs' Pellucidar

Why Hell Stinks of Sulfur

At the Earth's Core Pellucidar, Tamar of Pellucid

Tanar of Pellucidar

Earth's Core and Mantle

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Constitution of the Earth's Interior discusses the physical and evolutionary principles connecting various elements of the knowledge about structure and dynamics of the Earth's interior. This work is divided into eight chapters that primarily focus on the physical, chemical, and petrological state. This text contains general data on a general stationary model, which is described by equations of state combining the basic parameters, including pressure, temperature, density, gravity acceleration, and mineral composition within the Earth's interior. Considerable chapters concern the chemical and petrological composition of the matter in the Earth's interior. The remaining chapters describe models containing inhomogeneities used to illustrate processes connected with phase transitions. This book will be of great value to

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geologists, physicists, and researchers.

"This volume collects stories from Korak, Son of Tarzan #1 and Weird Worlds #1-#7, originally published by DC Comics" Savage Pellucidar - Edgar Rice Burroughs - When David Innes and Abner Perry set out to search for mineral deposits in Perry's newly invented Mechanical Prospector, they never dreamed of discovering the beautiful, terrifying world of Pellucidar five hundred miles beneath their feet. Cast into a country of fierce fighting men, beautiful women, and vicious beasts, David and Abner take sharply diverging paths. David and his mate, Dian the Beautiful, set out to teach Pellucidar the ways of civilization and succeed in gathering a number of primitive kingdoms into the Empire of Pellucidar. Meanwhile, Abner turns his inventive genius to the science of

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aeronautics, with dire results for both David and Dian. The seventh and final book in Edgar Rice Burroughs's Pellucidar series, Savage Pellucidar continues the epic story with a masterful blend of action, humor, and suspense.

From the Earth's Core to Outer Space focuses on four themes: (1) Evolving Earth's crust, (2) Changing Baltic Sea, (3) Climate Change, and (4) Planet Earth, third stone from Sun. The focus on these four topics provides both a state of the art review of earth science topics of particular importance to Scandinavia and the Baltic and also the global context in which a consideration of these topics must be made. It finishes by discussing our use of space born technologies for understanding these topics and places the Earth within the context of our neighbouring planets and their satellites. The

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first theme includes papers on the structure, origin and evolution of the Earth's crust and in particular the ore deposits in Fennoscandia, plate-tectonic drift of Fennoscandia (Baltica), and postglacial isostatic rebound of the crust. The second theme contains papers dealing with changes in the ice season of the Baltic Sea, inflow and stagnation in deep basins, biology of the Baltic Sea, and carbon dioxide balance in sea water. The third theme deals with origin and evolution of oxygen in atmosphere, postglacial climate change, effects of aerosols and greenhouse gases on climate, interplay between anthropogenic and natural factors in the current climate change, and Earth's water resources. The fourth theme includes articles on Earth's space environment, use of satellites in cartography and geodesy,

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information obtained by space probes on Mars and other planets and their moons, and possibilities to find life on them.

At the Earth's Core - the Original Classic Edition

Pellucidar Terror from the Earths Core Trade Paperback

Geothermal Energy

Back to the Stone Age

Geomagnetism, Aeronomy and Space Weather

At the Earth's Core is a 1914 fantasy novel by American writer Edgar Rice Burroughs, the first in his series about the fictional "hollow earth" land of Pellucidar. It first appeared as a four-part serial in All-Story Weekly from April 4-25, 1914.

Authoritative review of composition, structure and evolution of the mantle for researchers and graduate students.

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Explains how scientists use modern tools like seismology, geodesy, computer modeling, and GPS instruments to study the workings of the inner Earth.

The further adventures of David Innes and Abner Perry at the Earth's core. We learn of new developments occurring in Pellucidar, including the capture of Tanar the Fleet One by the piratical Korsars, together with picturesque details about the lovely Stellara of the Island of Amiocap, Bohar the Bloody, and others, as well as reptilian monsters.

Pellucidar

To the Uttermost Parts of the Earth

Mantle Convection in the Earth and Planets

Composition, Structure, and Evolution

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Past to Present

To the Uttermost Parts of the Earth shows the vital role played by legal imagination in the formation of the international order during 1300–1870. It discusses how European statehood arose during early modernity as a locally specific combination of ideas about sovereign power and property rights, and how those ideas expanded to structure the formation of European empires and consolidate modern international relations. By connecting the development of legal thinking with the history of political thought and by showing the gradual rise of economic analysis into predominance, the author argues that legal ideas from different European legal systems - Spanish, French, English and German - have played a prominent role in

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the history of global power. This history has emerged in imaginative ways to combine public and private power, sovereignty and property. The book will appeal to readers crossing conventional limits between international law, international relations, history of political thought, jurisprudence and legal history.

Beneath Earths surface is a boundless source of energygeothermal energy. Heated by our planets red-hot core, hot water and hot rock below the ground on which we walk already provides energy in many parts of the world, from Alaska to Hawaii. Discover the different forms geothermal energy, how people are harnessing and using this rich supply, and how it could be an important part of our energy future.

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E. Aster Bunnymund uses his martial arts skills, his network of tunnels, and the help of MiM, Sand Mansnoozy, and Nicholas St. North to battle the Nightmare King, Pitch, who has sent a venomous serpent to attack Bunnymund's royal guard of warrior eggs.

Earth's Core: Geophysics of a Planet's Deepest Interior provides a multidisciplinary approach to Earth's core, including seismology, mineral physics, geomagnetism, and geodynamics. The book examines current observations, experiments, and theories; identifies outstanding research questions; and suggests future directions for study. With topics ranging from the structure of the core-mantle boundary region, to the chemical and physical properties of the core, the

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workings of the geodynamo, inner core seismology and dynamics, and core formation, this book offers a multidisciplinary perspective on what we know and what we know we have yet to discover. The book begins with the fundamental material and concepts in seismology, mineral physics, geomagnetism, and geodynamics, accessible from a wide range of backgrounds. The book then builds on this foundation to introduce current research, including observations, experiments, and theories. By identifying unsolved problems and promising routes to their solutions, the book is intended to motivate further research, making it a valuable resource both for students entering Earth and planetary sciences and for researchers in a particular

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subdiscipline who need to broaden their understanding. Includes multidisciplinary observations constraining the composition and dynamics of the Earth's core Concisely presents competing theories and arguments on the composition, state, and dynamics of the Earth's interior Provides observational tests of various theories to enhance understanding Serves as a valuable resource for researchers in deep earth geophysics, as well as many sub-disciplines, including seismology, geodynamics, geomagnetism, and mineral physics

The Dark Forest

Revealed by Observational Seismology

A Decadal Strategy for Earth Observation from Space

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Selected Works by Paul Roberts

Layers of the Earth

The Earth's Core, Second Edition is a six-chapter book that begins with the general physical properties of the Earth, with emphasis on the core-mantle boundary. This edition discusses the accretion mechanism, heat sources in the early Earth, time of core formation, thermal regime of the Earth, melting-point depth curves, and thermal consequences of iron-alloy core.

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Subsequent chapters focus on reversals of the Earth's magnetic field; the energetics and the constitution of the Earth's core; and the cores of the Moon and other planets. The role of the Earth's core is vital to the understanding of many geophysical phenomena. It is the seat of the Earth's magnetic field and is responsible as well to some variations in the length of the day. An interdisciplinary review of research

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in geomagnetism, aeronomy and space weather, written by eminent researchers from these fields.

In response to a radio plea from Abner Perry, a scientist who with his friend David Innes has discovered the interior world of Pellucidar at the Earth's core, Jason Gridley launches an expedition to rescue Innes from the Korsars (corsairs), the scourge of the internal seas. He enlists Tarzan, and a fabulous airship is constructed to

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penetrate Pellucidar via the natural polar opening connecting the outer and inner worlds. The airship is crewed primarily by Germans, with Tarzan's Waziri warriors under their chief Muviro also along for the expedition. The sky split open and Middletown became the "City at Worlds End" Heavy Metal, Moving Rock City at Worlds End The Earth's Inner Core Mythology and Geology of the Underworld

At the Earth's Core Illustrated

Scientists have made new inroads in the study of the Earth's deep interior. They have forged developments in this fascinating arena using experimental and observational techniques, including seismology, monitoring of the Earth's rotation, geomagnetism, and accurate measurements of Earth's gravity fields. These techniques along with more theoretica

A comprehensive guide to carbon inside Earth - its quantities, movements, forms, origins, changes over time and impact on planetary

processes. This title is also available as Open Access on Cambridge Core.

Comprehensive and up-to-date synthesis of all aspects of mantle convection, for advanced students and researchers.

David Innes travels 500 miles into the earth and finds a subterranean world. Sequels Pellucidar and Tamar of Pellucidar are also included in this volume.

**Laboratory Manual for Introductory Geology
Magnetohydrodynamics and the Earth's Core
Land of Terror**

Geologic Fundamentals of Geothermal Energy

Tarzan at the Earth's Core

The fifth installment of Edgar Rice Burroughs's Pellucidar series, Back to the Stone Age recounts the strange adventures of Lieutenant von Horst, a member of the original crew that sailed to Pellucidar with Jason Gridley and Tarzan who is left behind in the inner world. Von Horst wanders friendless and alone from one danger to the next among the Stone Age peoples, mighty reptiles, and huge animals that have been

extinct on the outer crust for thousands of years. But woven among the tales of savage cave men in the country of the Basti, the hideous Gorbuses in the caverns beneath the Forest of Death, and the terrible Gaz is the story of the love this cultured hero feels for a barbarian slave girl who has spurned and discouraged him, working instead toward her own mysterious goal.

Deep under the earth's surface is the mysterious realm of Pellucidar, where humans are subject to evil reptilian masters.

Adventurer David Innes comes to the rescue in their desperate struggle for freedom We live on a dynamic Earth shaped by both natural processes and the impacts of humans on their environment. It is in our collective interest to observe and understand our planet, and to predict future behavior to the extent possible, in order to effectively manage resources, successfully respond to threats from natural and human-induced environmental change, and capitalize on the opportunities " social, economic, security,

and more " that such knowledge can bring. By continuously monitoring and exploring Earth, developing a deep understanding of its evolving behavior, and characterizing the processes that shape and reshape the environment in which we live, we not only advance knowledge and basic discovery about our planet, but we further develop the foundation upon which benefits to society are built. Thriving on Our Changing Planet presents prioritized science, applications, and observations, along with related strategic and

programmatic guidance, to support the U.S. civil space Earth observation program over the coming decade.

Stress Field of the Earth's Crust is based on lecture notes prepared for a course offered to graduate students in the Earth sciences and engineering at University of Potsdam. In my opinion, it will undoubtedly also become a standard reference book on the desk of most scientists working with rocks, such as geophysicists, structural geologists, rock mechanics experts, as well as geotechnical

and petroleum engineers. That is because this book is concerned with what is probably the most peculiar characteristic of rock – its initial stress condition. Rock is always under a natural state of stress, primarily a result of the gravitational and tectonic forces to which it is subjected. Crustal stresses can vary regionally and locally and can reach in places considerable magnitudes, leading to natural or man-made mechanical failure. Pre-existing stress distinguishes rock from most other materials and is at the core of the discipline

of “Rock Mechanics”, which has been developed over the last century. Knowledge of rock stress is fundamental to understanding faulting mechanisms and earthquake triggering, to designing stable underground caverns and productive oil fields, and to improving mining methods and geothermal energy extraction, among others. Several books have been written on the subject, but none has attempted to be as all-encompassing as the one by Zang and Stephansson.

Savage Pellucidar

Earth's Layers

Energy from Earth's Core

At the Earth's Core

Earth's Core

The inner core is a planet within a planet: a hot sphere with a mass of one hundred quintillion tons of iron and nickel that lies more than 5000 kilometres beneath our feet. It plays a crucial role in driving outer core fluid motion and the geodynamo, which generates the Earth's magnetic field. This book is the first to provide a comprehensive review of past and contemporary research on the Earth's inner core from a seismological perspective. Chapters cover the

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collection, processing and interpretation of seismological data, as well as our current knowledge of the structure, anisotropy, attenuation, rotational dynamics, and boundary of the inner core. Reviewing the latest research and suggesting new seismological techniques and future avenues, it is an essential resource for both seismologists and non-seismologists interested in this fascinating field of research. It will also form a useful resource for courses in seismology and deep Earth processes.

Having already created two highly memorable science fiction heroes in Tarzan and John Carter, Edgar Rice Burroughs begins his third major series with David Innes. With friend Abner Perry, they dive their mole, or burroughing machine, straight through the earths surface

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where they discover the savage land of Pellucidar. Here, where dinosaurs still exist and mankind is enslaved by the reptilian Mahars, David and his friend are forced to face unknown perils and survive in a hostile environment (and of course, win the beautiful lady). At the Earths Core is another highly entertaining science fiction novel from Edgar Rice Burroughs. Even though his format is formulaic, youre always assured of fast paced adventure in his novels. The Pellucidar series is a worthy addition to Burroughs body of work. A terrific adventure novel that will immerse you in a world with simple, descriptive language and rollicking action sequences.

E. Aster Bunnymund and the Warrior Eggs at the Earth's Core!

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Legal Imagination and International Power 1300-1870

Stress Field of the Earth's Crust

Geophysics of a Planet's Deepest Interior

The Tides of the Planet Earth