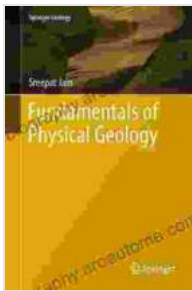


# Fundamentals of Physical Geology: Your Guide to Unlocking the Secrets of Earth

Embark on a captivating journey into the realm of physical geology with 'Fundamentals of Physical Geology' by Springer Nature. This comprehensive textbook, meticulously crafted by renowned geologists, provides an in-depth exploration of the Earth's structure, processes, and evolution, illuminating the intricate workings of our planet.



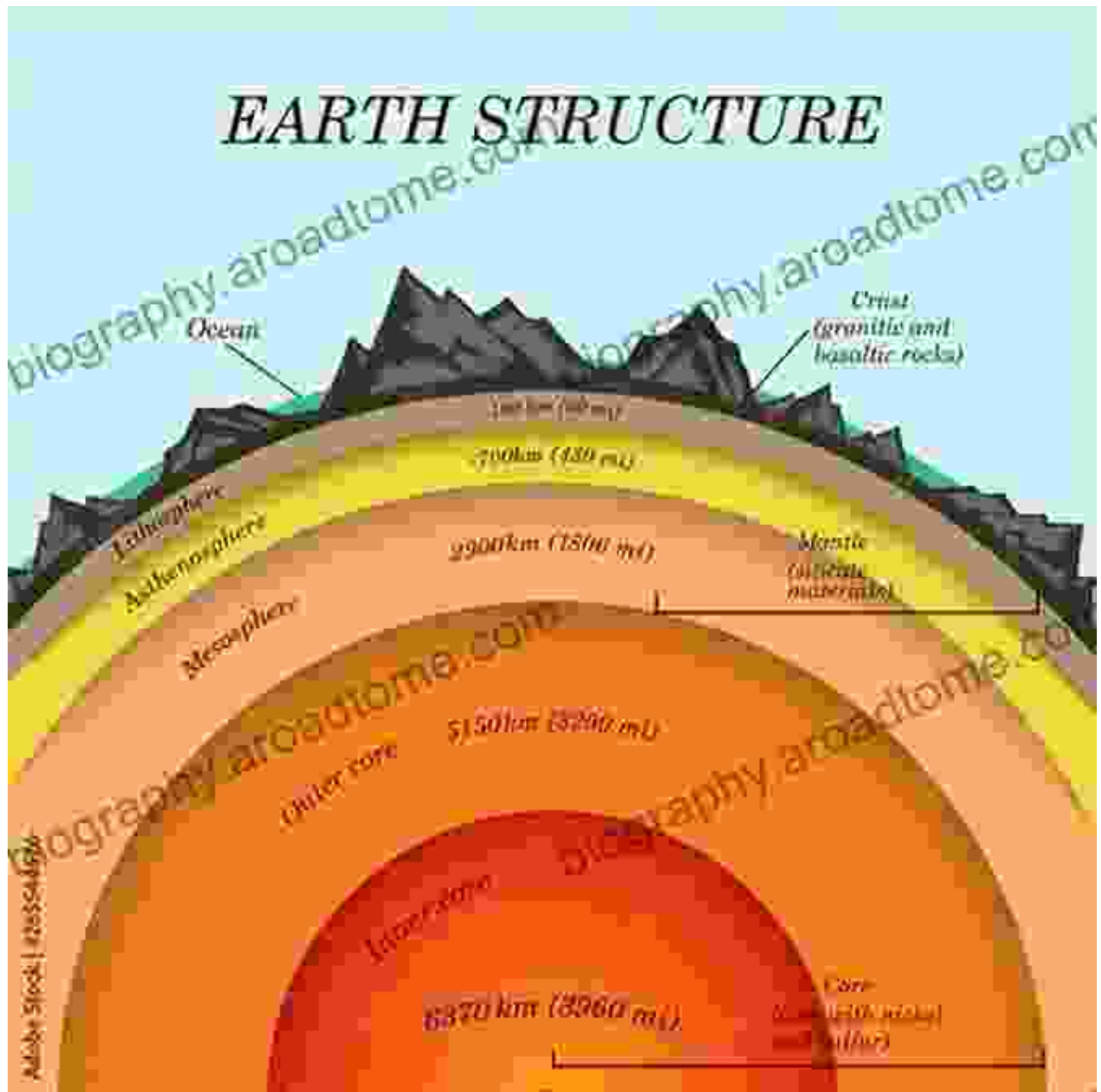
## Fundamentals of Physical Geology (Springer Geology)

★★★★☆ 4.5 out of 5

Language : English  
File size : 23929 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 647 pages

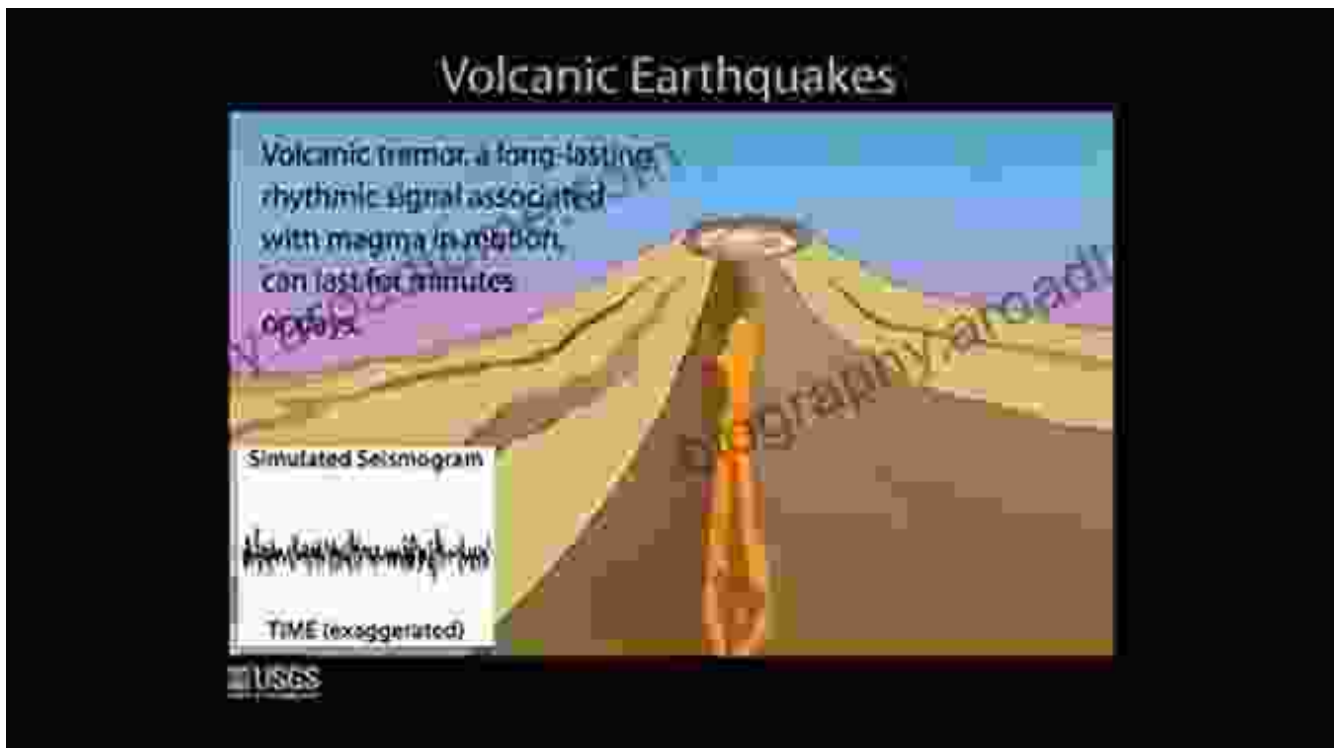


**Delve into the Earth's Structure and Composition**



Unravel the secrets of the Earth's internal architecture with 'Fundamentals of Physical Geology.' Dive into the composition and properties of the crust, mantle, and core, gaining insights into the forces that shape our planet's interior. Understand the role of plate tectonics in shaping continents and oceans, and explore the diverse geological materials that make up the Earth's surface.

## Witness the Dynamic Geological Processes



Witness the Earth's transformative power as 'Fundamentals of Physical Geology' unravels the dynamic geological processes that occur on and within our planet. From the spectacular eruptions of volcanoes to the subtle movements of glaciers, the book explores the forces that sculpt our landscapes and drive the evolution of the Earth's surface. Understand the mechanisms behind earthquakes, landslides, and other geological hazards, and gain a deeper appreciation for the interplay between Earth's systems.

## Unearth the Geological History of Earth

## Geological Time Scale

ERA	PERIOD	EPOCH / AGE	Million Years Ago	EVENTS
<b>CENOZOIC</b> Age of Mammals 65.5 mya - present day	<i>Quaternary</i>	<i>Holocene</i>	Today	Ice Age ends Humans are dominant
		<i>Pleistocene</i>	0.01	Earliest Hominids appear Ice Age begins
	<i>Tertiary</i>	<i>Pliocene</i>	1.6	Hominids (human ancestors) appear
		<i>Miocene</i>	5.3	Grass becomes widespread
		<i>Oligocene</i>	33.3	Mammals are dominant
		<i>Eocene</i>	36.6	Eocene - Oligocene extinction event
		<i>Paleocene</i>	57.8	First large mammals appear
<b>MESOZOIC</b> Age of Reptiles 245 mya - 65.5 mya	<i>Cretaceous</i>	<i>Extinction of Dinosaurs</i>	65.5	K-T extinction event Earth builds ozone in greenhouse Flowering plants appear
	<i>Jurassic</i>		144	First birds appear Pangaea splits into Laurasia, Gondwana Dinosaurs are dominant
	<i>Triassic</i>	<i>First Dinosaurs</i>	245	Pangaea cracks First mammals appear Reptiles are dominant
<b>PALEOZOIC</b> 570 mya - 245 mya	<i>Permian</i>	<i>Age of Amphibians</i>	245	Permian - Triassic extinction event Placental forms
	<i>Carboniferous</i>		286	First reptiles appear First large scorpion-like flies appear
	<i>Devonian</i>	<i>Age of Fishes</i>	360	Late Devonian extinction event First land animals appear First amphibians appear
	<i>Silurian</i>		408	First land plants appear First jawed fishes appear First insects appear
	<i>Ordovician</i>	<i>Age of Invertebrates</i>	438	Ordovician - Silurian extinction event First vertebrates appear
	<i>Cambrian</i>		505	End Botomian extinction event First fungi appear Trilobites are dominant
<b>PRECAMBRIAN</b> 4000 mya - 570 mya	<i>Proterozoic Eon</i>		570	First multi-celled animals appear First multicellular life appear
	<i>Achean Eon</i>		2500	Photosynthetic cyanobacteria appear First multicellular life appear
	<i>Hadean Eon</i>	<i>Priscoan Period</i>	4600	Atmosphere and oceans form Oldest rocks form on Earth's surface
<b>Formation of Earth</b>				

Journey through the annals of Earth's history as 'Fundamentals of Physical Geology' guides you through the major geological events that have shaped our planet. From the formation of the solar system to the present day, the book unveils the geological record preserved in rocks and landscapes. Trace the evolution of life on Earth and witness the dramatic shifts in climate and ecosystems that have occurred over billions of years.

## **Features of 'Fundamentals of Physical Geology'**

- Comprehensive coverage of all major aspects of physical geology
- Clear and concise explanations, supported by abundant illustrations and diagrams
- In-depth case studies and real-world examples that bring concepts to life
- End-of-chapter review questions and exercises to reinforce understanding
- Access to supplementary online resources, including animations, interactive maps, and data sets

## **Target Audience**

'Fundamentals of Physical Geology' is an essential resource for:

- Undergraduate students in geology and earth sciences
- Professionals in the fields of geology, geophysics, and environmental science
- Educators seeking a comprehensive textbook for physical geology courses
- Anyone with a passion for understanding the Earth and its processes

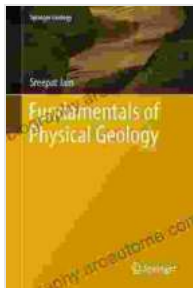
## **Enhance Your Geological Knowledge**

Embark on an enlightening journey into the captivating world of physical geology with 'Fundamentals of Physical Geology' by Springer Nature. This comprehensive textbook will empower you with a deep understanding of

the Earth's structure, processes, and evolution, unlocking the secrets that lie beneath our feet. Free Download your copy today and delve into the fascinating realm of physical geology.

## Free Download Information

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