

Introduction to Plate Tectonic Theory, Geodesy, and VLBI

The plate tectonic theory is a relatively new, accepted only around 50 years ago. The following website contains a more detailed and lesson plans on plate tectonics, geodesy, and VLBI.

<http://www.haystack.mit.edu/edu/pcr/GPS/index.html>

The Plate Tectonic Theory

In 1912, Alfred Wegener proposed that all the continents were at one time a single large continent that broke apart, and drifted through the ocean floor to where they are now. Wegener was first influenced by how the continents fit together, especially western Africa and eastern South America. When he compared the rock structures and composition of the coastlines of the continents mentioned above, he found them to be very similar. Wegener also examined fossil distribution, location and similarity and again found a strong correlation. For example, why was a specific trilobite only found in Massachusetts and in Scotland?

His theory of continental drift was not accepted in the scientific community because it conflicted with the established theories which were:

1. The continents' position are basically unchanged since when were formed. (Permanentists)
2. The Earth gradually contracted and the ocean floor became dry land, and dry land, in turn, became ocean floor (Contractionists)

South African geologist, Alexander Du Toit spent five months in Brazil, Uruguay and Argentina examining the geology. He found that the same plant and animal fossils he knew in South Africa were embedded in the rock in the same sequence layer by layer.

Paleomagnetism, the study of the magnetism in rocks, provided more substantiation. When molten igneous rocks solidify, magnetic minerals in the rocks, (for example, iron oxides) align themselves with the Earth's magnetic field. The deviations in the magnetic alignment in these rocks from the current direction of the Earth's magnetic field showed that the continents have moved.

Finally during the 1960's two Cambridge scientists, Drummond Matthews and Fred Vine, discovered that on either side of the Mid-Atlantic Ridge there were a series

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Table of Contents Introduction To Plate Tectonic Theory Geodesy And

1. Understanding the eBook Introduction To Plate Tectonic Theory Geodesy And
 - The Rise of Digital Reading Introduction To Plate Tectonic Theory Geodesy And
 - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Plate Tectonic Theory Geodesy And
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Introduction To Plate Tectonic Theory Geodesy And
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Plate Tectonic Theory Geodesy And
 - Personalized Recommendations
 - Introduction To Plate Tectonic Theory Geodesy And User Reviews and Ratings
 - Introduction To Plate Tectonic Theory Geodesy And and Bestseller Lists
5. Accessing Introduction To Plate Tectonic Theory Geodesy And Free and Paid eBooks
 - Introduction To Plate Tectonic Theory Geodesy And Public Domain eBooks
 - Introduction To Plate Tectonic Theory Geodesy And eBook Subscription Services
 - Introduction To Plate Tectonic Theory Geodesy And Budget-Friendly Options
6. Navigating Introduction To Plate Tectonic Theory Geodesy And eBook Formats

- ePub, PDF, MOBI, and More
 - Introduction To Plate Tectonic Theory Geodesy And Compatibility with Devices
 - Introduction To Plate Tectonic Theory Geodesy And Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introduction To Plate Tectonic Theory Geodesy And
 - Highlighting and Note-Taking Introduction To Plate Tectonic Theory Geodesy And
 - Interactive Elements Introduction To Plate Tectonic Theory Geodesy And
 8. Staying Engaged with Introduction To Plate Tectonic Theory Geodesy And
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introduction To Plate Tectonic Theory Geodesy And
 9. Balancing eBooks and Physical Books Introduction To Plate Tectonic Theory Geodesy And
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introduction To Plate Tectonic Theory Geodesy And
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Introduction To Plate Tectonic Theory Geodesy And
 - Setting Reading Goals Introduction To Plate Tectonic Theory Geodesy And
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Introduction To Plate Tectonic Theory Geodesy And
 - Fact-Checking eBook Content of Introduction To Plate Tectonic Theory Geodesy And
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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