

Name: _____ Period: _____ Date: _____

Lab: Virtual Earthquake

I. Problem:

How does one find the epicenter and magnitude of an earthquake using a seismogram?

II. Hypothesis:

The epicenter will be located using travel times of _____ and _____ waves. The magnitude will be found using the maximum amplitude of _____ waves and a Richter Nomogram.

III. Materials:

Website: <http://www.sciencecourseware.org/VirtualEarthquake/VQuakeExecute.html>

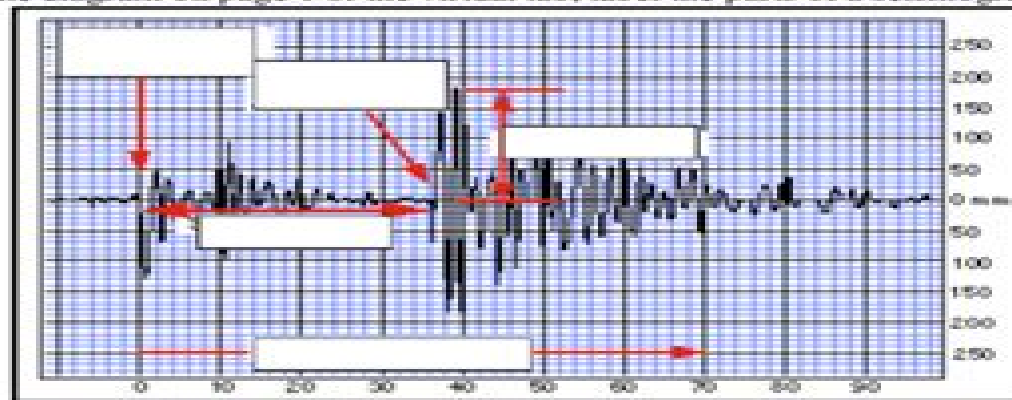
IV. Procedure:

1. Navigate to the laboratory website. If you don't want to type in the long address above, you can get to the website this way:

<http://sallyhell.com/science/rhs>

→ Study Help → Semester 2 → Earthquakes → Lab: [Virtual Earthquake](#)

2. Using the diagram on page 1 of the virtual lab, label the parts of a seismogram:



4. Follow the instructions on the virtual lab website and finish the lab.

5. When you are finished, print out the "Virtual Seismologist Certificate of Completion" and staple it to this worksheet. Be sure to include the data table below the certificate also.

V. Conclusions:

(HINT: Use the table below your "Certificate of Completion" to answer these questions.)

1. What is the difference between your predication and the actual magnitude of the earthquake? *(Hint: Subtract your magnitude from the actual magnitude.)*

2. Where was the source of the greatest error in your predictions: the S-P interval, the epicentral distance, or the maximum S-wave amplitude?

Virtual Earthquake Lab Answer Key

Steven J. Whitmeyer

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Virtual Earthquake Lab Answer Key:

Journal of Geoscience Education, 1996 Google Earth and Virtual Visualizations in Geoscience Education and Research Steven J. Whitmeyer, 2012-01-01 GSA Special Paper 492 consists of 35 papers that collectively synthesize the development and current uses of Google Earth and associated visualization media in geoscience education and research. Chapters focus on Google Earth and related tools such as SketchUp, Google Fusion Tables, GigaPan, and LiDAR. Many of these papers include digital media that illustrate and highlight important themes of the texts. This volume is intended to document the state of the art for geoscience applications of geobrowsers such as Google Earth along with providing provocative examples of where this technology is headed in the future. The Seismic Design Handbook Farzad Naeim, 2012-12-06 This handbook contains up to date existing structures computer applications and information on planning, analysis, and design of seismic design of wood structures. A new and very useful feature of this edition of earthquake resistant building structures is the inclusion of a companion CD ROM disc containing the complete digital version of the handbook itself and the following very engineering and architecture with authoritative yet practical design information. It represents important publications, an attempt to bridge the persisting gap between UBC 1997, 2000 Structural advances in the theories and concepts of Comparisons and Cross References, ICBO earthquake resistant design and their 2000 implementation in seismic design practice. 2 NEHRP Guidelines for the Seismic Rehabilitation of Buildings FEMA 273 Federal Emergency Management Agency composed of 22 experts from industry and universities recognized for their knowledge and 1997 extensive practical experience in their fields. 3 NEHRP Commentary on the Guidelines for They have aimed to present clearly and the Seismic Rehabilitation of Buildings FEMA 274 Federal Emergency Management Agency concisely the basic principles and procedures pertinent to each subject and to illustrate with Management Agency 1997 practical examples the application of these 4 NEHRP Recommended Provisions for principles and procedures in seismic design. Seismic Regulations for New Buildings and practice Where applicable the provisions of Older Structures Part 1 Provisions various seismic design standards such as FEMA 302 Federal Emergency Management Agency 2000 UBC 97 FEMA 273, 274 and ATC 40 Management Agency 1997. Seismic Interferometry Deyan Draganov, Johan O. A. Robertsson, 2008 Seismic Interferometry History and Present Status SEG Geophysics Reprint Series No 26 shows that developments in seismic interferometry, the methodology of generating new seismic responses by crosscorrelation, have taken an enormous flight since the beginning of this century. In 2006 the editors of this volume compiled a supplement to Geophysics dedicated to this new branch of science. The 22 papers of the well received supplement recognized by one award for best paper and two honorable mentions for best paper in Geophysics and more than 100 citations in the first 20 months form the basis for this reprint volume. The editors have added 50 papers from SEG and other journals including Science, Physical Review, and Geophysical Research Letters. The book contains an editors introduction with

extensive references and chapters on seismic interferometry without equations highlights of the history of seismic interferometry from 1968 until 2003 and a more detailed overview of the rapid developments since 2004 Seismic Interferometry is an invaluable source for researchers and students interested in the theory and applications of interferometry in geophysical exploration seismic and EM seismology ultrasonics and underwater acoustics **Report** ,1969

Mother Jones Magazine ,1995-03 Mother Jones is an award winning national magazine widely respected for its groundbreaking investigative reporting and coverage of sustainability and environmental issues **Teaching Geology Using the History and Philosophy of Science** Glenn Dolphin,2024-10-02 This book provides a case study on how to design and build an introductory geology course for non science majors The book presents a foundation with the status of geoscience education and research in geoscience conceptual development as a backdrop for the design process It then describes the instructional goal setting process and development of the structural components of the course based on the determined goals The book presents the three historical narratives the earth is a historical entity the earth is very old and the earth is dynamic that form the foundation of instruction It also describes examples of the implicit explicit and reflective treatments of the nature of science to help student develop a better sense of the process of geology Finally the book gives preliminary results from some innovative approaches to research on student learning within the domains of geological content knowledge and NOS content knowledge within the course **Stochastic Analysis of Offshore Tower Structures** Anil Kumar Malhotra,Joseph Penzien,1969 *Journal of Pressure Vessel Technology* ,1982 The Leading Edge ,2006-07 *Byte* ,1994-04 *Mother Jones* ,1995 *ACI Manual of Concrete Practice* American Concrete Institute,2002 School Library Journal ,1997 **The Software Encyclopedia** ,1986 *Safety Science Abstracts Journal* ,1978 **Forthcoming Books** Rose Arny,2000

The Top Books of the Year Virtual Earthquake Lab Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Virtual Earthquake Lab Answer Key : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://movement.livewellcolorado.org/files/Resources/HomePages/Unselling%20Stop%20Selling%20Start%20Connecting%20Hardcover.pdf>

Table of Contents Virtual Earthquake Lab Answer Key

1. Understanding the eBook Virtual Earthquake Lab Answer Key
 - The Rise of Digital Reading Virtual Earthquake Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Virtual Earthquake Lab Answer Key
 - 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 Virtual Earthquake Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Virtual Earthquake Lab Answer Key
 - Personalized Recommendations
 - Virtual Earthquake Lab Answer Key User Reviews and Ratings
 - Virtual Earthquake Lab Answer Key and Bestseller Lists
5. Accessing Virtual Earthquake Lab Answer Key Free and Paid eBooks
 - Virtual Earthquake Lab Answer Key Public Domain eBooks
 - Virtual Earthquake Lab Answer Key eBook Subscription Services
 - Virtual Earthquake Lab Answer Key Budget-Friendly Options
6. Navigating Virtual Earthquake Lab Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Virtual Earthquake Lab Answer Key Compatibility with Devices
 - Virtual Earthquake Lab Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Virtual Earthquake Lab Answer Key
 - Highlighting and Note-Taking Virtual Earthquake Lab Answer Key
 - Interactive Elements Virtual Earthquake Lab Answer Key
8. Staying Engaged with Virtual Earthquake Lab Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Virtual Earthquake Lab Answer Key
- 9. Balancing eBooks and Physical Books Virtual Earthquake Lab Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Virtual Earthquake Lab Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Virtual Earthquake Lab Answer Key
 - Setting Reading Goals Virtual Earthquake Lab Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Virtual Earthquake Lab Answer Key
 - Fact-Checking eBook Content of Virtual Earthquake Lab Answer Key
 - 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

Virtual Earthquake Lab Answer Key Introduction

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