

Wave Characteristics and Properties Worksheet - ANSWERS

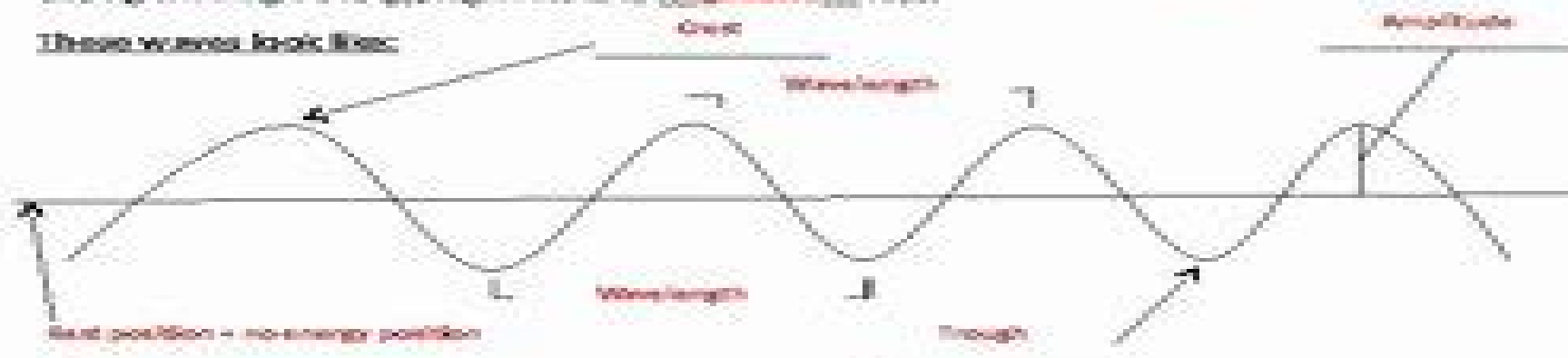
_____ Longitudinal _____ or _____ compression _____ waves are waves which transfer _____ energy _____ from particle to particle. One example is _____ sound _____ waves which travel molecule to molecule, because of this, the wave requires a _____ medium _____ or a source of matter in order to travel. This means _____ sound _____ waves cannot travel through the vacuum of _____ space _____ because there is no matter. _____ Earthquake or seismic _____ waves, _____ sound _____ waves and _____ explosions _____ are all this type of wave.

These waves look like:



_____ Transverse _____ waves are waves which transfer _____ energy _____ in a _____ perpendicular _____ fashion using electricity and magnetism and require no _____ medium _____ or _____ matter _____ in order to travel. Examples of _____ transverse _____ waves are _____ light _____, _____ radio _____ and _____ ultra-violet _____ waves. Because the waves do not require a _____ medium _____ this means they can travel in the vacuum of space. The _____ electromagnetic spectrum _____ is made up of a full range or bands of _____ transverse _____ waves beginning with low energy, low intensity _____ radio _____ waves and ending with high energy, high intensity _____ gamma _____ rays.

These waves look like:



Answers Of Characteristics Of Waves

RD Boyd



Answers Of Characteristics Of Waves:

Waves And Rays In Seismology: Answers To Unasked Questions (Second Edition) Michael A Slawinski, 2018-05-04

In summary Professor Slawinski has written an engaging volume covering an unfamiliar topic in a highly accessible fashion. Non specialists will gain a significant appreciation of the unique complexities associated with seismology. Contemporary Physics. The author dedicates this book to readers who are concerned with finding out the status of concepts, statements and hypotheses and with clarifying and rearranging them in a logical order. It is thus not intended to teach tools and techniques of the trade but to discuss the foundations on which seismology and in a larger sense the theory of wave propagation in solids is built. A key question is why and to what degree can a theory developed for an elastic continuum be used to investigate the propagation of waves in the Earth which is neither a continuum nor fully elastic. But the scrutiny of the foundations goes much deeper: material symmetry, effective tensors, equivalent media, the influence or rather the lack thereof of gravitational and thermal effects and the rotation of the Earth are discussed ab initio. The variational principles of Fermat and Hamilton and their consequences for the propagation of elastic waves, causality, Noether's theorem and its consequences on conservation of energy and conservation of linear momentum are but a few topics that are investigated in the process to establish seismology as a science and to investigate its relation to subjects like realism and empiricism in natural sciences, to the nature of explanations and predictions and to experimental verification and refutation. In the second edition, new sections, figures, examples, exercises and remarks are added. Most importantly, however, four new appendices of about one hundred pages are included which can serve as a self-contained continuum mechanics course on finite elasticity. Also, they broaden the scope of elasticity theory commonly considered in seismology.

Navy Electricity and Electronics Training Series Jerry W. Stewart, 1983

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subsequent Δh values $2 \text{ CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) \rightarrow \text{C}_2\text{H}_2(\text{g}) + \frac{5}{2} \text{O}_2(\text{g}) \quad \Delta h = 94.5 \text{ kJ}$
 $\text{H}_2\text{O}(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l}) \quad \Delta h = 71.2 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{O}_2(\text{g}) \rightarrow 2 \text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{l}) \quad \Delta h = -1560 \text{ kJ}$

co₂ g 3 h 2 o g Δh 283 kj g 1 c₂h₆ g

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web thus for reaction 9 2 in which 1 mole of H_3O^+ and 1 mole of OH^- combine to form 2 moles of H_2O $\Delta h = 55.8 \text{ kJ}$ as shown note that the enthalpy change $\Delta h_{\text{products}} - \Delta h_{\text{reactants}}$ is positive if heat is absorbed that is if $\Delta h_{\text{products}}$

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