

## P. Sci. Waves **Key**

Put all answers on a separate sheet of notebook paper.

1. Mechanical waves need a medium through which to transport energy.
2. The particles in a surface water wave move in a circle (back-&-forth / up & down).
3. Waves in which the particles of medium move at right angles to the direction of the wave are transverse waves.
4. The wavelength of a wave is measured from the crest of one wave to the crest of the next.
5. If the wavelength of a given wave decreases, you know that its frequency will increase.
6. Two waves have the same frequency and wavelength, but the first wave has a greater amplitude. The energy of the first wave greater than that of the second.
7. Wave A has a greater frequency than wave B, but the amplitude of the two waves is the same. The energy of wave A is equal to that of wave B.
8. The unit for frequency is the hertz.
9. A wave will travel only as long as it has energy to carry.
10. When you squeeze together the coils of a spring and then release them, you are creating a compressional wave.
11. Waves in which the particles of the medium move only in the same direction as the motion of the wave are compressional waves.
12. You are creating a wave on a spring. If you start shaking the spring more slowly, the wavelength of the resulting wave will increase.
13. If you are lying on a raft, and you notice that the number of waves that go past the raft increases, you also find that the distance between each crest decreases.
14. Wave A carries more energy than wave B. Wave B has a smaller amplitude than wave A.
15. The energy a wave carries is measured by its amplitude.
16. For a given wave, if the frequency doubles, the wavelength is halved.
17. When a wave passes from a less dense medium to a more dense medium, the speed may change.
18. Repeating disturbances that transfer energy through matter or space are waves.

19. The two types of mechanical waves are transverse and compressional (longitudinal).
20. If the frequency of a water wave changes, its wavelength must also change.
21. The symbol  $\lambda$  (lambda) stands for the wavelength.



Figure 11-1

22. In Figure 11-1, identify the following structures:  
B wavelength, A crest, C amplitude
23. Speed can be determined by dividing the distance traveled by the time. The water waves in a lake travel 4.4 m in 2.0 s. What is the speed of the waves?  $y = d/t$   $v = 4.4\text{m} / 2.0\text{s}$   $v = 2.2\text{ m/s}$
24. An ocean wave has a frequency of 2.0 Hz with a wavelength of 10 m. What is the velocity of the wave?  $v = f \times \lambda$   $v = 2.0\text{ Hz} \times 10\text{ m}$   
 $v = 20\text{ m/s}$



25. The wavelength of the wave in the diagram is 1.5 m.
26. The amplitude of the above wave is 0.5 m.
27. A man is standing on the shore of a beach, up to his knees in water. Every 5 seconds a wave breaks on him. What is the period of the wave? 5 seconds

# Review Guide For Waves Physics

**Siddappa N.Byrareddy**



## **Review Guide For Waves Physics:**

*Applied Mechanics Reviews*, 1974      **The Literary Guide and Rationalist Review**, 1925      Resources in Education, 1986      Nonlinear Meta-Optics Costantino De Angelis, Giuseppe Leo, Dragomir N. Neshev, 2020-05-20 This book addresses fabrication as well as characterization and modeling of semiconductor nanostructures in the optical regime with a focus on nonlinear effects The visible range as well as near and far infrared spectral region will be considered with a view to different envisaged applications The book covers the current key challenges of the research in the area including exploiting new material platforms fully extending the device operation into the nonlinear regime adding re configurability to the envisaged devices and proposing new modeling tools to help in conceiving new functionalities Explores several topics in the field of semiconductor nonlinear nanophotonics including fabrication characterization and modeling of semiconductor nanostructures in the optical regime with a focus on nonlinear effects Describes the research challenges in the field of optical metasurfaces in the nonlinear regime Reviews the use and achievements of all dielectric nanoantennas for strengthening the nonlinear optical response Describes both theoretical and experimental aspects of photonic devices based on semiconductor optical nanoantennas and metasurfaces Gathers contributions from several leading groups in this research field to provide a thorough and complete overview of the current state of the art in the field of semiconductor nonlinear nanophotonics Costantino De Angelis has been full professor of electromagnetic fields at the University of Brescia since 1998 He is an OSA Fellow and has been responsible for several university research contracts in the last 20 years within Europe the United States and Italy His technical interests are in optical antennas and nanophotonics He is the author of over 150 peer reviewed scientific journal articles Giuseppe Leo has been a full professor in physics at Paris Diderot University since 2004 and in charge of the nonlinear devices group of MPQ Laboratory since 2006 His research areas include nonlinear optics micro and nano photonics and optoelectronics with a focus on AlGaAs platform He has coordinated several research programs and coauthored 100 peer reviewed journal articles 200 conference papers 10 book chapters and also has four patents Dragomir Neshev is a professor in physics and the leader of the experimental photonics group in the Nonlinear Physics Centre at Australian National University ANU His activities span over several branches of optics including nonlinear periodic structures singular optics plasmonics and photonic metamaterials He has coauthored 200 publications in international peer reviewed scientific journals      Surface Flute Waves in Plasmas Igor Girka, Manfred Thumm, 2022-04-26 This book presents a comprehensive theoretical study of the electromagnetic eigenwaves propagating perpendicular to the axis of symmetry in various cylindrical waveguide structures filled with magneto active plasma It is the second updated and significantly expanded edition of our book Surface Flute Waves in Plasmas Theory and Applications published in 2014 in the Springer Series on Atomic Optical and Plasma Physics First the text is complemented by a study of the wave energy rotation around the axis of the waveguides Second excitation of these waves by an electron beam gyrating around the axis is investigated in

detail Surface waves means that these waves only propagate along plasma surfaces and not in uniform infinite plasmas Their wave amplitudes decrease with going away from the plasma boundary into the plasma depth Flute means that the axial wavenumbers  $k_z$  of the waves in plasma cylinders are assumed to be zero and the waves only propagate in azimuthal direction In this case the surfaces of constant density resemble fluted Greek columns However the presence of a small but finite  $k_z$  can be taken into account by the method of successive approximations using the theory of surface flute waves as zeroth approach A variety of present applications of surface waves and possible future applications are also included The book applies to both professionals dealing with physical and technological problems of confined plasmas and to graduate and post graduate students specializing in the fields of electrodynamics plasma physics and related applications *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress,1968 *Monthly Weather Review* ,1978

*Geospace Electromagnetic Waves and Radiation* James W. LaBelle,R.A. Treumann,2006-12-13 The contributions gathered in this volume provide introductions to current problems in geospace electromagnetic radiation guides to the associated literature and tutorial reviews of the relevant space physics Students and scientists working on various aspects of the terrestrial aurora or magnetospheric and near Earth heliospheric high frequency waves will find this volume an indispensable companion for their studies *Research Reviews* ,1949 **Air Force Research Review** United States. Air Force. Systems Command,1970 *Characterization of Condensed Matter* Yujun Song,Qingwei Liao,2023-08-02

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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

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