

TYPES OF WAVES

Electromagnetic Waves

Waves propagating in form of oscillating electric and magnetic fields.
Do not require medium for propagation.

Transverse Waves

The individual particles of the medium oscillate perpendicular to the direction of wave propagation.

Velocity of Transverse Wave in Solids and Strings

- In solids, $v = \sqrt{\frac{\eta}{\rho}}$
where η is modulus of rigidity and ρ is density of solids.
- In stretched string, $v = \sqrt{\frac{T}{m}}$
here, T is tension in string and m is mass per unit length of string.

Progressive Waves

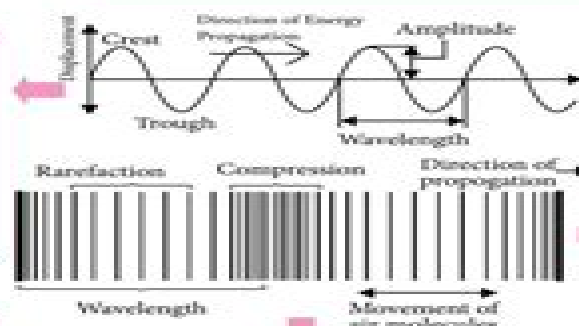
- Displacement,** $y = A \sin(\omega t - kx + \phi_0)$
 $y = A \sin 2\pi \left(\frac{t}{T} - \frac{x}{\lambda} \right) = A \sin \frac{2\pi}{\lambda} (vt - x)$
- Phase,** $\phi = 2\pi \left(\frac{t}{T} - \frac{x}{\lambda} \right) + \phi_0$
where ϕ_0 is the initial phase.
- Phase change:**
(a) with time $\Delta\phi = \frac{2\pi}{T} \Delta t$ (b) with position $\Delta\phi = \frac{2\pi}{\lambda} \Delta x$.

Stationary Waves

- Wave formed by the superposition of incident wave and reflected wave is given by $y = \pm 2a \sin \frac{2\pi x}{\lambda} \cos \frac{2\pi t}{T}$
- Position of antinodes: $x = 0, \frac{\lambda}{2}, \lambda, \frac{3\lambda}{2}$
- Position of nodes: $x = \frac{\lambda}{4}, \frac{3\lambda}{4}, \frac{5\lambda}{4}$
- Frequency of vibration of a string fixed at both ends, $v = \frac{nv}{2L} = \frac{n}{2L} \sqrt{\frac{T}{m}}$
 L = length of string, n = mode of vibration

Mechanical Waves

Waves which require a material medium for their propagation are called mechanical waves.



Matter Waves

Waves associative with microscopic particles such as electrons, protons etc. in motion are called matter waves.

Longitudinal Waves

The individual particles of medium oscillate along the direction of wave propagation.

Velocity of Longitudinal Waves

- In a solid of bulk modulus κ , modulus of rigidity η and density ρ is
$$v = \sqrt{\frac{\kappa + \frac{4}{3}\eta}{\rho}}$$
- In a fluid of bulk modulus κ and density ρ is
$$v = \sqrt{\frac{\kappa}{\rho}}$$
- Newton's formula for the velocity of sound in a gas is
$$v = \sqrt{\frac{\kappa_{\text{iso}}}{\rho}} = \sqrt{\frac{P}{\rho}} \quad (P = \text{pressure of the gas})$$

WAVE MOTION

Superposition of Waves

Identical waves of same speed superposes in opposite direction

Waves with same speed and different frequency superposes in same direction

- Open organ pipe:**
Fundamental mode, $v_1 = v/2L = v$ (1st harmonic)
 n^{th} mode, $v_n = nv/2L$ (n^{th} harmonic and $(n-1)^{\text{th}}$ overtone)
- Closed organ pipe:**
Fundamental mode, $v_1 = v/4L = v$ (1st harmonic)
 n^{th} mode, $v_n = (2n-1)v$ [($2n-1$)th harmonic or $(n-1)^{\text{th}}$ overtone]

Doppler's Effect in Sound

- If v , v_0 , v_s and v_m are the velocities of sound, observer, source and medium respectively, then the apparent frequency,
$$v' = \frac{v + v_m - v_0}{v + v_m - v_s} \times v$$
- If the medium is at rest, ($v_m = 0$) then
$$v' = \frac{v - v_0}{v - v_s} \times v$$

Beats Formation

- Beat frequency** = Number of beats sec^{-1}
= Difference in frequencies of two sources.
$$v_{\text{beat}} = (v_1 - v_2) \text{ or } (v_2 - v_1)$$

 $\therefore v_2 = v_1 + v_{\text{beat}}$
- If prongs of tuning fork is filed v increases.
- If prongs is loaded with a wax v decreases.
- Uses:**
 - For tuning musical instruments
 - For detection of marsh gas in mines
 - For using as a low frequency oscillator.

Mind On Physics Answers Key Waves

SATYAM SIR



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Technologies of the Mind Stanislav Tregub, 2020-08-08 The brain is the source of sensations emotions desires thoughts memories movement and behavior control All these are aspects of the process we call the Mind Despite a vast amount of data on the nervous system functioning down to the molecular level no concept has yet uncovered the physical mechanism and the technology of this process With this aim in sight the author continues to develop the Teleological Transduction Theory The book contains hypotheses about the physical nature of the Mind and provides examples of how physics manifests in the nervous system physiology It also shows how the Mind s algorithm produces a reality model with constant updating based on incoming data and performs the self learning functions The theory encompasses the physical processes that create the enormous capacity speed and multi level complexity of our memory It solves the riddle of how the brain forms and reproduces a vast number of representations almost instantly Building a model of reality is not an end to itself The final goal is to act based on this model The nervous system specializes in controlling the body and organizing purposeful movement But how does it perform the function The book contains hypotheses about the technology and physical mechanism that create the observed speed and efficiency of motion control Taking all these aspects together the proposed theory aims to cover the explanatory gap about the physical nature of the

Mind **Swarm Leadership and the Collective Mind** Peter A. Gloor,2017-04-26 The future of business is swarm business whether it s at Uber Airbnb Tesla or Apple it s not about being a fearless leader but about creating a swarm that works together in collective consciousness to create great things and reinvent your business **The Palgrave Encyclopedia of the Possible** Vlad Petre Glăveanu,2023-01-25 The Palgrave Encyclopedia of the Possible represents a comprehensive resource for researchers and practitioners interested in an emerging multidisciplinary area within psychology and the social sciences the study of how we engage with and cultivate the possible within self society and culture Far from being opposed either to the actual or the real the possible engages with concrete facts and experiences with the result of transforming them This encyclopedia examines the notion of the possible and the concepts associated with it from standpoints within psychology philosophy sociology neuroscience and logic as well as multidisciplinary fields of research including anticipation studies future studies complexity theory and creativity research Presenting multiple perspectives on the possible the authors consider the distinct social cultural and psychological processes e g imagination counterfactual thinking wonder play inspiration and many others that define our engagement with new possibilities in domains as diverse as the arts design and business *The Answer: Thoughts are Things* Marion Collin,2015-08-26 Thoughts are Things Is Life part of an Eternal Plan Yes Is your Life already planned out No Your own Mind and Mindfulness attracts Life to you Give yourself time to reflect on events in your life up to today Have things gone pretty much as you expected them to be with both successes and low points Now what if you came to realize that what you were or were not thinking influenced what you experienced Would that be a shock to you You are meant to Plan your life and your own reality The Plan for thousands of years for human kind has been to do exactly that Plan your own future through focused Thought and the Power of your Brain People today are on the cusp of learning that there is an Internal Power a Divinity within each of us to discover The Kingdom is Within You and All Around You To create a positive reality for yourself you must learn the capability of your own brain to focus your Conscious mind to connect with your Subconscious Power and the Universal Mind Harnessing this knowledge will attract to you the reality that you want to experience in this lifetime The Answer has been part of The Eternal Plan since the beginning of the universe We haven t been Seeking Knowledge in the right places Humanity s true potential is to create the lives we desire and the Pathway has been in front of us all along Thoughts are Powerful Things www.askbelievereceive.ca **Electromagnetic Field Theories of Consciousness: Opportunities and Obstacles** Tam Hunt,Jonathan Schooler,Johnjoe McFadden,Arnaud Delorme,Colin G. Hales,Mostyn Jones,Marissa Ericson,2024-03-27 This new Research Topic is in part a celebration of the 30th anniversary of the game changing neural correlates of consciousness concept first proposed as part of Crick and Koch s 1990 neurobiological theory of consciousness After thirty years of research and theory building scholars in the science of consciousness are perhaps not much closer to a widely accepted theory of consciousness *Physics Essays* ,1997

Healing across Boundaries Makarand R. Paranjape,2015-08-12 This unique volume initiates a dialogue between bio

medicine and alternative therapeutics Undertaking a multidisciplinary exploration of the science and spirituality of healing and wellness it offers varied perspectives from doctors medical researchers Ayurvedic practitioners philosophers psychologists sociologists and cultural critics It expands the horizons of health sciences in engaging with diverse traditions bio medicine Ayurveda Siddha and Jaina bio ethics The book will interest scholars and researchers in social and community medicine biological sciences sociology and social anthropology as well as cultural studies

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Minds, Machines, and the Multiverse Julian Russell Brown, 2000 Julian Brown's record of the quest for the Holy Grail of computing a computer that could in theory take seconds to perform calculations that would take today's fastest supercomputers longer than the age of the universe is a tale populated by a remarkable cast of characters including David Deutsch of Oxford University who first announced the possibility of computation in the Alice in

Wonderland world of quantum mechanics Ed Fredkin who developed a new kind of logic gate as a true step toward universal computation and Richard Feynman who reasoned from the inability to model quantum mechanics on a classical computer the logical inevitability of quantum computing Minds Machines and the Multiverse details the uses for quantum computing in code breaking for quantum computers will be able to crack many of the leading methods of protecting secret information while offering new unbreakable codes Quantum computers will also be able to model nuclear and subatomic reactions offer insights into nanotechnology teleportation and time travel and perhaps change the way chemists and biotechnologists design drugs and study the molecules of life Farthest along the trail blazed by these pioneers is the ability to visualize the multiple realities of the quantum world not as a mathematical abstraction but as a real map to a world of multiple universes Incorporating explanations of ion trap gates nuclear magnetic resonance computers quantum dots quantum algorithms Fourier transforms and puzzles of quantum physics and illustrated with dozens of diagrams Minds Machines and the Multiverse offers a look at the still unbuilt machines that in the words of physicist Stanley Williams will reshape the face of science and offer a new window into the secrets of an infinite number of potential universes BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Exploring Planet Earth ,1994 Fundamentals of Physics David Halliday,Robert Resnick,Jearl Walker,2005 No other book on the market today can match the 30 year success of Halliday Resnick and Walker s Fundamentals of Physics In a breezy easy to understand style the book offers a solid understanding of fundamental physics concepts and helps readers apply this conceptual understanding to quantitative problem solving This book offers a unique combination of authoritative content and stimulating applications **Soviet Physics, JETP.** ,1978 *Fundamentals of Physics, Part 2 (Chapters 12-20)* David Halliday,Robert Resnick,Jearl Walker,2004-01-06 The Publishers' Trade List Annual ,1985 **El-Hi Textbooks & Serials in Print, 2003** ,2003 **Engineering** ,1874 *Training and Development Journal* ,1986 *The Flaming Sword* ,1898

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