

Wave Calculations

Speed of a wave = wavelength $\times$ frequency $v = \lambda f$ v = velocity (speed), measured in meters/second (m/s) λ = wavelength, measured in meters (m) f = frequency, measured in Hertz (Hz = 1/s)	The speed of a wave depends on the medium that it is travelling through. $f = 1/T$ f = frequency, measured in Hertz (Hz) T = period, measured in seconds (s)
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1. A wave along a guitar string has a frequency of 540 Hz and a wavelength of 2.5 meters. Calculate the speed of the wave.

Given	Rearranged Equation	Work	Final Answer
$f = 540$ $\lambda = 2.5$	$v = \lambda f$ $v = 2.5 \times 540$	$v = 2.5 \times 540$	1,350 m/s

2. The speed of sound in air is about 340 m/s. What is the wavelength of sound waves produced by a guitar string vibrating at 490 Hz?

Given	Rearranged Equation	Work	Final Answer
$v = 340 \text{ m/s}$ $f = 490$ $\lambda = ?$	$v = \lambda f$ $\lambda = v/f$	$\lambda = 340/490$ 0.69 m	0.69m

3. The speed of light is 300,000,000 m/s. What is the frequency of microwaves with a wavelength of 0.01 meter?

Given	Rearranged Equation	Work	Final Answer
$v = 300,000,000$ $\lambda = 0.01 \text{ m}$ $f = ?$	$v = \lambda f$ $f = v/\lambda$	$f = 300,000,000/0.01$	3^{10}

4. What is the period of the microwaves in the question above?

Given	Rearranged Equation	Work	Final Answer
$f = 3^{10}$	$f = 1/t$ $3^{10} = 1/t$		

5. The string on a piano that produces an A sharp vibrates with a frequency of 235 Hz. If the sound waves produced by this string have a wavelength (in air) of 1.49 meters, what is the speed of sound in air?

Given	Rearranged Equation	Work	Final Answer
$f = 235$ $\lambda = 1.49$	$v = \lambda f$ $v = 1.49 \times 235$	$v = 1.49 \times 235$	350.15

6. The average wavelength in a series of ocean waves is 15.0 meters. A wave crest arrives at the shore an average of every 10.0 seconds, so the frequency is 0.100 Hz. What is the average speed of the waves?

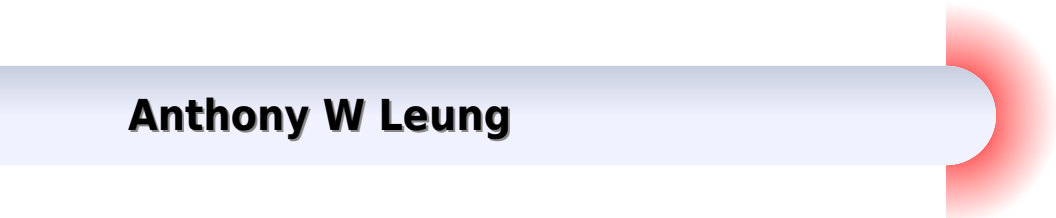
Given	Rearranged Equation	Work	Final Answer
$f = 0.100$ $\lambda = 15.0$	$v = \lambda f$ $v = 0.100 \times 15.0$		1.5m/s

7. An FM radio station broadcasts electromagnetic waves at a frequency of 94.5 MHz (equal to 94,500,000 Hz). These radio waves have a wavelength of 3.17 meters. What is the speed of the waves?

Given	Rearranged Equation	Work	Final Answer
$f = 94,500,000$	$v = \lambda f$		299,565,000m/s

Answers For Physical Science Waves Calculations

Anthony W Leung



Answers For Physical Science Waves Calculations:

Physics—Problems, Solutions, and Computer Calculations Wan Muhamad Saridan Wan Hassan, Abd Rahman Tamuri, Muhammad Zaki Yaacob, Roslinda Zainal, 2023-12-05 Knowledge of and skill in physics are essential foundations for studies in science and engineering This book offers students an introduction to the basic concepts and principles of physics It covers various topics specifically related to waves sound electricity magnetism and optics Each chapter begins with a summary of concepts principles definitions and formulae to be discussed as well as ending with problems and solutions that illustrate the specific topic Steps are detailed to help build reasoning and understanding There are 250 worked problems and 100 exercises in the book as well as 280 figures to help the reader visualize the processes being addressed Computer calculations and solutions are carried out using wxMaxima to give insight and help build computational skills The book is aimed at first year undergraduate students studying introductory physics and would also be useful for physics teachers in their instruction particularly the exercises at the end of each chapter

Nonlinear Systems Of Partial Differential Equations: Applications To Life And Physical Sciences Anthony W Leung, 2009-08-28 The book presents the theory of diffusion reaction equations starting from the Volterra Lotka systems developed in the eighties for Dirichlet boundary conditions It uses the analysis of applicable systems of partial differential equations as a starting point for studying upper lower solutions bifurcation degree theory and other nonlinear methods It also illustrates the use of semigroup stability theorems and W2p theory Introductory explanations are included in the appendices for non expert readers The first chapter covers a wide range of steady state and stability results involving prey predator competing and cooperating species under strong or weak interactions Many diagrams are included to easily understand the description of the range of parameters for coexistence The book provides a comprehensive presentation of topics developed by numerous researchers Large complex systems are introduced for modern research in ecology medicine and engineering Chapter 3 combines the theories of earlier chapters with the optimal control of systems involving resource management and fission reactors This is the first book to present such topics at research level Chapter 4 considers persistence cross diffusion and boundary induced blow up etc The book also covers traveling or systems of waves coupled Navier Stokes and Maxwell systems and fluid equations of plasma display These should be of interest to life and physical scientists

Peregrine Soliton and Breathers in Wave Physics: Achievements and Perspectives Bertrand Kibler, Amin Chabchoub, Heremba Bailung, 2022-08-16

Modern Physics Gary N. Felder, Kenny M. Felder, 2022-09-15 An accessible and pedagogically rich Modern Physics textbook with step by step explanations and extensive resources to support active learning

Applied Analysis in Biological and Physical Sciences Jim M. Cushing, M. Saleem, H. M. Srivastava, Mumtaz Ahmad Khan, M. Merajuddin, 2016-12-01 The book contains recent developments and contemporary research in mathematical analysis and in its application to problems arising from the biological and physical sciences The book is of interest to readers who wish to learn of new research in such topics as linear

and nonlinear analysis mathematical biology and ecology dynamical systems graph theory variational analysis and inequalities functional analysis differential and difference equations partial differential equations approximation theory and chaos All papers were prepared by participants at the International Conference on Recent Advances in Mathematical Biology Analysis and Applications ICMBA 2015 held during 4-6 June 2015 in Aligarh India A focal theme of the conference was the application of mathematics to the biological sciences and on current research in areas of theoretical mathematical analysis that can be used as sophisticated tools for the study of scientific problems The conference provided researchers academicians and engineers with a platform that encouraged them to exchange their innovative ideas in mathematical analysis and its applications as well as to form interdisciplinary collaborations The content of the book is divided into three parts Part I contains contributions from participants whose topics are related to nonlinear dynamics and its applications in biological sciences Part II has contributions which concern topics on nonlinear analysis and its applications to a variety of problems in science engineering and industry Part III consists of contributions dealing with some problems in applied analysis

Fractional Differential Equations Praveen Agarwal, Carlo Cattani, Shaher Momani, 2024-04-29 Fractional Differential Equations Theoretical Aspects and Applications presents the latest mathematical and conceptual developments in the field of Fractional Calculus and explores the scope of applications in research science and computational modelling Fractional derivatives arise as a generalization of integer order derivatives and have a long history their origin can be found in the work of G W Leibniz and L Euler Shortly after being introduced the new theory turned out to be very attractive for many famous mathematicians and scientists including P S Laplace B Riemann J Liouville N H Abel and J B J Fourier due to the numerous possibilities it offered for applications Fractional Calculus the field of mathematics dealing with operators of differentiation and integration of arbitrary real or even complex order extends many of the modelling capabilities of conventional calculus and integer order differential equations and finds its application in various scientific areas such as physics mechanics engineering economics finance biology and chemistry among others However many aspects from the theoretical and practical point of view have still to be developed in relation with models based on fractional operators Efficient analytical and numerical methods have been developed but still need particular attention Fractional Differential Equations Theoretical Aspects and Applications delves into these methods and applied computational modelling techniques including analysis of equations involving fractional derivatives fractional derivatives and the wave equation analysis of FDE on groups direct and inverse problems functional inequalities and computational methods for FDEs in physics and engineering Other modelling techniques and applications explored by the authors include general fractional derivatives involving the special functions in analysis fractional derivatives with respect to another function in analysis new fractional operators in real world applications fractional order dynamical systems hidden attractors in complex systems nonlinear dynamics and chaos in engineering applications quantum chaos and self excited attractors Provides the most recent and up

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New Trends in the Applications of Differential Equations in Sciences Angela Slavova, 2023-03-17 This book convenes peer reviewed selected papers presented at the Ninth International Conference New Trends in the Applications of Differential Equations in Sciences NTADES held in Sozopol Bulgaria June 17 20 2022 The works are devoted to many applications of differential equations in different fields of science A number of phenomena in nature physics chemistry biology and in society economics result in problems leading to the study of linear and nonlinear differential equations stochastic equations statistics analysis numerical analysis optimization and more The main topics are presented in the five parts of the book applications in mathematical physics mathematical biology financial mathematics neuroscience and fractional analysis In this volume the reader will find a wide range of problems concerning recent achievements in both theoretical and applied mathematics The main goal is to promote the exchange of new ideas and research between scientists who develop and study differential equations and researchers who apply them for solving real life problems The book promotes basic research in mathematics leading to new methods and techniques useful for applications of differential equations The NTADES 2022 conference was organized in cooperation with the Society of Industrial and Applied Mathematics SIAM the major international organization for Industrial and Applied Mathematics and for the promotion of interdisciplinary collaboration between applied mathematics and science engineering finance and neuroscience

Emerging Applications of Differential Equations and Game Theory Alparslan Gök, S?rma Zeynep, Aru?aslan Çinçin, Duygu, 2019-11-22 Branches of mathematics and advanced mathematical algorithms can help solve daily problems throughout various fields of applied sciences Domains like economics mechanical engineering and multi person decision making benefit from the inclusion of mathematics to maximize utility and cooperation across disciplines There is a need for studies seeking to understand the theories and practice of using differential mathematics to increase efficiency and order in the modern world Emerging Applications of Differential Equations and Game Theory is a collection of innovative research that examines the recent advancements on interdisciplinary areas of applied mathematics While highlighting topics such as artificial neuron networks stochastic optimization and dynamical systems this publication is

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