

Vocabulary: Doppler shift, frequency, pitch, sonic boom, sound waves, wavelength

Highlight your answers in either **GREEN** / **BLUE** / OR **YELLOW**

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Have you ever heard a siren on a moving ambulance, fire truck, or police car? If so, what happens to the sound as the vehicle passes by?

Sometimes when cars are passing I usually hear the car running and sometimes I hear the horn of the car.

The change in the sound that you hear is called the **Doppler shift**.

Gizmo Warm-up

The Doppler Shift Gizmo illustrates why the Doppler shift occurs. The Gizmo shows a vehicle that emits **sound waves** and an observer who will hear the sounds.



1. Click the **PLAY SAMPLE** button (). (Check that the Gizmo's sound and your computer's speakers are on.)

What do you hear?

I hear I police siren

2. Click **Play** () and observe the sound waves emitted from the moving car. Click **Pause** () and compare the sound waves in front of and behind the car. **What do you notice?**

Something that I notice is the length between them is about 900cm

3. Use the **Ruler** to measure the **wavelength**, or the distance between the lines, of the waves in front of and behind the car. (Note: The red circles represent every thousandth wave.)

Wavelength in front of car: 600 cm

Wavelength behind car: 900 cm

Why do you think the waves in front of the car have a shorter wavelength than the waves behind the car?

I think that the reason that the front is shorter than the back is because the car is chasing the waves and the waves in the back are running away from the car.

Activity A: The Doppler shift

Get the Gizmo ready:

- Click **Reset** ().
- Check that f_{source} is set to 500 Hz and v_{sound} is set to 340 m/s, close to the actual speed of sound.
- Set v_{source} to 0 m/s.

f_{source} (Hz)

v_{sound} (m/s)

v_{source} (m/s)

Answer Sheet To Exploring Learning Doppler Shift

Minjie Lin



Answer Sheet To Exploring Learning Doppler Shift:

Paradigm Shifts in Communication, Embedded Systems, Machine Learning, and Signal Processing Deep Gupta, Vipin Kamble, Vishal Satpute, Ashwin Kothari, 2025-08-25 This two volume set CCIS 2490 2491 constitutes the refereed proceedings of the Third International Conference on Paradigm Shifts in Communication Embedded Systems Machine Learning and Signal Processing PCEMS 2024 held in Nagpur India during November 11 12 2024 The 73 full papers and 17 short papers presented in this volume were carefully reviewed and selected from 330 submissions The papers present recent research in the areas of communication antenna computer vision medical image analysis deep learning AI based systems and applications classification problem embedded system and IoT etc **Modules** ,2005 **Innovative Technology-based Solutions for Primary, Secondary and Tertiary STEM Education** Cristina Hava Muntean, Diana Bogusevschi, Gabriel-Miro Muntean ,2019-09-23 This book presents innovative technology enhanced learning solutions for STEM education proposed by the EU Horizon 2020 funded NEWTON project by first highlighting the benefits and limitations of existing research work e learning systems and case studies that embedded technology in the teaching and learning process NEWTON s proposed innovative technologies and pedagogies include adaptive multimedia and multiple sensorial media virtual reality fabrication and virtual labs gamification personalisation game based learning and self directed learning pedagogies The main objectives are to encourage STEM education among younger generations and to attract students to STEM subjects making these subjects more appealing and interesting Real life deployment of NEWTON technologies and developed educational materials in over 20 European educational institutions at primary secondary and tertiary levels demonstrated statistical significant increases in terms of learner satisfaction learner motivation and knowledge acquisition **Smart Assisted Living** Feng Chen, Rebeca I. García-Betances, Liming Chen, María Fernanda Cabrera-Umpiérrez, Chris Nugent, 2019-08-20 Smart Homes SH offer a promising approach to assisted living for the ageing population Yet the main obstacle to the rapid development and deployment of Smart Home SH solutions essentially arises from the nature of the SH field which is multidisciplinary and involves diverse applications and various stakeholders Accordingly an alternative to a one size fits all approach is needed in order to advance the state of the art towards an open SH infrastructure This book makes a valuable and critical contribution to smart assisted living research through the development of new effective integrated and interoperable SH solutions It focuses on four underlying aspects 1 Sensing and Monitoring Technologies 2 Context Interference and Behaviour Analysis 3 Personalisation and Adaptive Interaction and 4 Open Smart Home and Service Infrastructures demonstrating how fundamental theories models and algorithms can be exploited to solve real world problems This comprehensive and timely book offers a unique and essential reference guide for policymakers funding bodies researchers technology developers and managers end users carers clinicians healthcare service providers educators and students helping them adopt and implement smart assisted living systems **NASA Technical Memorandum** ,1994

Strategy for the Detection and Study of Other Planetary Systems and Extrasolar Planetary Materials National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Planetary and Lunar Exploration, 1990-02-01 This volume addresses a new opportunity in the planetary sciences to extend our exploration outward to discover and study planetary systems that may have formed or are forming around other stars It concludes that a coordinated program of astronomical observation laboratory research theoretical development and understanding of the dynamics and origins of whatever may be found would be a technologically feasible and potentially richly rewarding extension of the study of bodies within the solar system

IoT Based Control Networks and Intelligent Systems P. P. Joby, Marcelo S. Alencar, Przemyslaw Falkowski-Gilski, 2023-11-27 This book gathers selected papers presented at International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2023 organized by School of Computer Science and Engineering REVA University Bengaluru India during June 21 22 2023 The book covers state of the art research insights on Internet of things IoT paradigm to access manage and control the objects things people working under various information systems and deployed under wide range of applications like smart cities healthcare industries and smart homes

Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

Topics in Modal Analysis II, Volume 8 Randall Allemang, 2025-08-07 This eighth volume of eight from the IMAC XXXII Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Linear Systems Substructure Modelling Adaptive Structures Experimental Techniques Analytical Methods Damage Detection Damping of Materials Members Modal Parameter Identification Modal Testing Methods System Identification Active Control Modal Parameter Estimation Processing Modal Data

Applied Mechanics Reviews ,1975 **Scientific and Technical Aerospace Reports** ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Literature 1982, Part 2 Siegfried Böhme, Professor Dr. Walter Fricke, Herbert Hefele, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Vladimir R. Matas, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-09 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all

fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 32 contains literature published in 1982 and received before February 11 1983 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bou a Prague who surveyed journals and publications in Czech and supplied us with abstracts in English

Challenges and Transitions in Education in Times of Crisis

Purpuri, Leah, Gray, Sancha, 2024-07-26 The COVID 19 pandemic emerged as a disruptive force that exposed numerous challenges From the sudden shift to virtual learning accompanied by technology disparities to issues of diversity equity and inclusion the crisis impacted students families educators and leaders alike The social and emotional well being of learners took center stage and the need for academic rigor became even more pressing as learning gaps widened Teachers faced the challenge of maintaining motivation while complications in students home lives became increasingly apparent The involvement or lack thereof of families and communities in the education process added another layer of complexity It is within this complex educational landscape that our book presents itself as a beacon of hope and transformation Challenges and Transitions in Education in Times of Crisis is the solution to the unprecedented challenges that COVID 19 brought to the education sector It goes beyond just analyzing the problems and delves deep into innovative and actionable solutions that have emerged from this crisis The book provides a comprehensive overview of the educational environment from pre pandemic to post pandemic through a lens of opportunity It is a guide for all stakeholders in education presenting evidence based strategies and best practices to address the complex issues facing our schools

Multimedia Learning

Richard E. Mayer, 2020-07-09 Advances in computer graphic technologies have inspired new efforts to understand the potential of multimedia instruction as a means of promoting human learning In Multimedia Learning Third Edition Richard E Mayer takes an evidence based approach to improving education using well designed multimedia instruction He reviews 15 principles of multimedia instructional design that are based on more than 200 experimental research studies and grounded in a cognitive theory of how people learn from words and graphics The result is the latest instalment of what Mayer calls the Cognitive Theory of Multimedia Learning a theory introduced in previous editions of Multimedia Learning and in The Cambridge Handbook of Multimedia Learning Second Edition This edition provides an up to date and systematic summary of research studies on multimedia learning supplemented with complementary evidence from around the globe It is well suited to graduate and undergraduate courses in psychology education computer science communication instructional design and game design

ENC Focus ,2000

Mathematics & Science in the Real World ,2000

Information Processing

and Network Provisioning Michel Kadoch, Mohamed Cheriet, Xuesong Qiu, 2025-09-22 The proceedings set CCIS 2593 until

CCIS 2596 constitutes the proceedings of the Third International Conference on Information Processing and Network Provisioning ICIPNP 2024 which took place in Qingdao China during November 8 10 2024 The 153 full papers presented in the proceedings were carefully reviewed and selected from 277 submissions They deal with up to date research ranging from information and signal processing and network provisioning to computer communications and network applications

Publications Announcements United States. National Aeronautics and Space Administration,1958 **Technical Publications Announcements** United States. National Aeronautics and Space Administration,1961 **6G Networks and AI-Driven Cybersecurity** Shaikh, Riaz Ahmed,2025-07-23 The most recent developments in 6G networks combined with artificial intelligence AI might be utilized to improve cybersecurity While AI provides solutions to various problems in cybersecurity it also introduces challenges in data privacy It is important to explore the development of AI driven security solutions to keep up to date and stimulate further innovation in the field of cybersecurity Future trends and innovations should be examined as 6G networks continue to develop 6G Networks and AI Driven Cybersecurity provides insights into the convergence of 6G AI and cybersecurity It bridges the gap between theoretical research and practical applications promoting collaboration between academia and industry through connecting theoretical research with practical applications Covering topics such as threat response decision making and machine to machine communication this book is an excellent resource for cybersecurity practitioners computer scientists industry professionals policymakers professionals researchers academicians and more

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web aug 28 2023 the brown recluse spider belongs to a group of spiders commonly known as the fiddle back or violin spider because of the violin shaped marking on the dorsal surface of the cephalothorax fused head and thorax with the neck of the violin pointing toward the abdomen figure 1 the shape and intensity of the fiddle design may vary

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web the brown recluse spider *loxosceles reclusa* belongs to the genus *loxosceles* they are also known as fiddle back or violin spiders recluse spiders are a venomous genus of spider known for their venomous necrotic death of cells and living tissue bite

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web feb 8 2022 symptoms and stages of a brown recluse spider bite a brown recluse s venom can destroy blood vessels tissue and nerves as a result the skin tissue can die a phenomenon called skin

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web 2 days ago certainly identifying the spider is helpful as the brown recluse has a unique appearance with a yellow to brown color and a fiddle or violin shaped mark on its back he says they typically grow to between 1 and 1 1 2 inches long 2 5 to 3 5 centimeters friedman adds that these spiders like dark warm dry spaces like attics or under

where do brown recluse spiders live worldatlas - Apr 30 2022

web oct 9 2019 the brown recluse spider is a type of recluse spider with a range that is limited to the midwestern and south central united states the species has necrotic venom and its bite like other brown spiders requires immediate medical attention

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web brown recluse spiders belong to the sicariidae family the sicariidae family contains approximately 160 different spider species the most renowned members of which are the brown recluse spider and the six eyed sand spider brown recluse spiders reach adulthood in the span of one year and they typically live for two to four years in the wild

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web jan 26 2023 the brown recluse spider *loxosceles reclusa* is a part of the family sicariidae also known as six eyed sicariid spiders within the genus *loxosceles* there are actually 11 spiders native to the u s and four of them are known to be of risk to humans expect the following characteristics from sicariid spiders

brown recluse spider entomology university of kentucky - Dec 07 2022

web for laypersons the most distinguishing feature of a brown recluse is a dark violin shaped mark on its back with the neck of the violin pointing toward the rear abdomen of the spider this feature is consistent in adult brown recluses but sometimes less obvious in younger spiders

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web may 1 2023 what are brown recluse spiders the brown recluse *loxosceles reclusa* is a small house spider about the size of a quarter it isn t aggressive so people who live in a house full of brown recluses may never be bitten they will bite when provoked however

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web nov 17 2022 the brown recluse spider *loxosceles reclusa* is one of the most poisonous spiders in the united states their venom is necrotic meaning that it destroys blood vessels causing tissue near the site of the bite to die getting bitten by one is uncommon and the bite alone rarely kills people

brown recluse spider about the brown recluse insects it s - Feb 26 2022

web feb 3 2010 the brown recluse is a nocturnal spider and will roam at nighttime searching for prey while resting in the daylight hours in his web the web is a loose very irregular sticky set of threads that are colored an off white color brown recluse it is built in a corner which is largely undisturbed by outsiders brown recluses often hide in human

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web nov 3 2022 the brown recluse is part of the *loxosceles* genus of spiders members of this group have violin shaped

markings on the top of their cephalothorax fused head and thorax where the legs are

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web the brown recluse is one of three spiders in north america with toxic venom the others being the black widow and the chilean recluse brown recluse spiders are usually between 6 and 20 millimetres 0 24 and 0 79 in but may grow larger while typically light to medium brown they range in color from whitish to dark brown or blackish gray

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web aug 29 2018 the brown recluse spider is also known as the violin or fiddle back spider it lives in midwestern and southeastern parts of the u s this spider is brown and has a darker violin shaped

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web aug 17 2023 brown recluse loxosceles reclusa venomous light tan or yellow spider most common in the western and southern united states it has a body length of about 7 mm 0 25 inch and a leg span of about 2 5 cm 1 inch on the front half of its body the cephalothorax it has a dark violin shaped brown recluse venomous bite symptoms

recluse spider wikipedia - May 12 2023

web the recluse spiders loxosceles l o k ' s o s i l i : z also known as brown spiders fiddle backs violin spiders and reapers is a genus of spiders that was first described by r t lowe in 1832 they are venomous spiders known for their bite which sometimes produces a characteristic set of symptoms known as loxoscelism

how to identify a brown recluse body size features wikihow - Oct 05 2022

web apr 24 2023 brown recluses are small spiders with light brown bodies and legs 6 eyes and fine hair on their legs true to their name brown recluses favor sheltered out of the way places and typically aren t out in plain sight brown recluse spiders are native to the southeastern and midwest united states

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web a brown recluse has a dark brown violin shape on the cephalothorax the portion of the body to which the legs attach the neck of the violin points backward toward the abdomen however what you should look at instead is the eye pattern of 6 eyes in pairs with a space separating the pairs most spiders have 8 eyes in two rows of four

brown recluse bite symptoms treatment stages cleveland clinic - Nov 06 2022

web overview what is a brown recluse spider the brown recluse spider is an eight legged arachnid that is tan to dark brown in color with a violin marking on its back that can range anywhere from 1 4 inch to 1 2 inch long younger spiders or those that have just molted won t have the violin marking

brown recluse description habitat image diet and - Jan 08 2023

web the brown recluse or violin spider has an upside down violin thus the nicknames fiddleback spider and violin spider this

brown recluse was trapped in an office light fixture and freed in the woods by a friendly receptionist brown recluse or violin spider hiding under a cushion ultra closeup of a female brown recluse spider