

Harmonics on Strings and in Pipes

We will use the Socratic Method to derive equations for harmonics on strings and in pipes. "Sit and learn, Aristotle."

Harmonics on Strings

- 1) Fill in the equation at the right for how many antinodes (AN) equals 1 λ .
- 2) How many AN does the fundamental have?
- 3) Above the diagram, write how many wavelength each harmonic is (H_1 is already done).
- 4) So, how many L's is the wavelength of the fundamental?
- 5) Under each harmonic, write its wavelength in terms of "L". (H_1 is already done).
- 6) You probably have the wavelength of the fundamental as a whole number, not a fraction. Make it a fraction, over 1.
- 7) Notice the denominators of harmonics 1, 3, and 5. You should see a pattern. Change the fractions of the other harmonics (2 and 4) so that the pattern is the same for all of them.
- 8) So, these changing denominators are the number of:
- 9) Calling the denominator "n" (the number of antinodes). Now write a formula for finding the wavelength of a particular harmonic on a fixed string of length "L".

$$\underline{2} \text{ AN} = \lambda$$



$$\lambda_{\text{string}} = 2L$$

- 10) * On a 2.5 m string, what is the wavelength of the 8th harmonic?
 $\lambda_1 = 2.5(2) = 5\text{m}$
 $\text{so } \lambda_8 = \frac{5}{8} = .625\text{m}$ or $\lambda_8 = \frac{2L}{n} = \frac{2(2.5)}{8} = .625\text{m}$
- 11) If a mechanical vibrator is vibrating 460 times per second to produce the 8th harmonic you just found, find the speed of the wave in the string.
 $v = f\lambda$
 $= 460(.625) = 287.5\text{ m/s}$

One other thing to notice: on a string it is possible to have every harmonic. There are no "missing harmonics".

Transfer of Waves Between Mediums

The speed of the wave is different in different mediums, so the speed of the wave is different in the string than in air.

- 12) The speed of sound in air varies between 330 Hz and 444 Hz. Let's use $v_{\text{sound}} = 340\text{ m/s}$.
- 13) If you tighten the string, will the wavelength of the harmonics change (is the string longer)? No
- 14) * When I tighten a string on my guitar what does change (music-wise)? pitch or note
- 15) When the string vibrates, it beats against the air, making the air molecules vibrate, too. Every time the string pushes, the air moves, too. So, what is the same in air as in a string: the wavelength of the vibration or the frequency of the vibration?
 $v = f\lambda$
- 16) What frequency sound will we hear from the string in Q11?
- 17) Is this audible to us (see "Sound" notes)? yes audible: 20 Hz $\rightarrow$ 20,000 Hz
- 18) What would be the wavelength of that sound in air? (You have speed and frequency...)

$$v = f\lambda$$

$$340 = 460\lambda \quad \lambda = .739\text{m}$$

Notice in Q10: wavelength on string was 0.625m and $v = 287.5\text{ m/s}$. f is same, but v is faster (340m/s), so wavelength increased: 0.739m

Ancillary Sound Topics Answer

DP Hallahan



Ancillary Sound Topics Answer:

Sound and Light William Duckworth, Richard Fleming, 2009 This book is a collection of essays and original material that introduces the avant garde artist collaborators La Monte Young and Marian Zazeela to those unfamiliar with their life and art as well as providing the more acquainted readers with new and useful insights and analyses of the fundamental issues in their life and work The book explores the recurring themes that have influenced Young's minimalist music and Zazeela's ongoing engagement with the use of light in art These themes include the importance of nature and its natural shapes and sounds the importance of mathematics and organized tuning systems based on natural harmonics enhanced attention spans and increased sensitivity to differences within apparent sameness extensions of time and alterations of space Essays by Terry Riley John Schaefer Henry Flynt Christine Christen Hennix Mitchell Clark Kyle Gann Ben Neill and Robert Palmer are included Young and Zazeela contribute to the book with original text materials that focus on continuous sound and light environments

Remedies Richard L. Hasen, 2010-01-01 Examples builds student understanding step by step moving from the basics to the more complex and allowing students to apply the law to particular fact patterns allows students to study chapters in any order demystifies the language of remedies using straightforward and student friendly examples charts and illustrations shows students how to do the math related to issues such as computing compensatory damages present value and constructive trusts offers compatibility with all major remedies books including those that approach remedies through public law and those that approach it through private law remains the only book in the field to provide both black letter law and examples and answers to build student knowledge the level of complexity builds as examples continue in each chapter discusses major remedies cases Hadley v Baxendale State Farm v Campbell Sullivan v O Connor provides detailed coverage of the draft Restatement Third of Restitution and gives detailed analyses of remedies issues under Article 2 of the Uniform Commercial Code

Selected Topics in the History of Biochemistry. Personal Recollections. IV G. Semenza, E.C. Slater, R. Jaenicke, 2012-12-02 The editors invited selected authors who had participated in or observed developments in biochemistry and molecular biology particularly in the second half of this century to record their personal recollections of the times and circumstances in which they worked Having been given free reign both content and style of the contributions reflect the flavour of the personality of the author The book reflects the explosive development of biochemistry and molecular biology and related sciences that had led to the almost unique situation of these fields coming of age at a time when their founding fathers or their scientific children were alive and well The contributions in this volume encompass a wide variety of experiences in many different countries and in very different fields of biochemistry

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their

understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents *Christian*

Remembrancer ,1823 **Refactoring SQL Applications** Stephane Faroult,Pascal L'Hermite,2008-08-22 What can you do when database performance doesn't meet expectations Before you turn to expensive hardware upgrades to solve the problem reach for this book Refactoring SQL Applications provides a set of tested options for making code modifications to dramatically improve the way your database applications function Backed by real world examples you'll find quick fixes for simple problems in depth answers for more complex situations and complete solutions for applications with extensive problems Learn to Determine if and where you can expect performance gains Apply quick fixes such as limiting calls to the database in stored functions and procedures Refactor tasks such as replacing application code by a stored procedure or replacing iterative procedural statements with sweeping SQL statements Refactor flow by increasing parallelism and switching business inducted processing from synchronous to asynchronous Refactor design using schema extensions regular

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clinical practice procedures and guidelines The text addresses core skills and knowledge that students need to pass their exams and go on to provide expert clinical care It prepares nurses to assess patients understand underlying diseases and their signs and symptoms and go on to plan and deliver care The text encourages readers to develop their clinical reasoning and problem solving skills in order to apply theory to their work This edition has been produced by leading expert nursing academics and clinicians who bring a strengthened focus on inclusion and diversity Provides a person centred holistic approach to patient assessment and care Complex concepts are illustrated with figures tables summaries and reflections of best practice Case studies throughout based on real life medical surgical scenarios help students to apply theory to real life Clinical practice features offer practical guidance for students Underpinned by the nursing process framework Instructor resources on Evolve Image collection PowerPoint slides Student and Instructor resources on Evolve Answer guidelines for clinical reasoning questions in case studies Student case studies Fluids and electrolytes tutorial eNursing Care Plans Clinical Cases Case Study Review questions and answers with answer rationale Conceptual Care Map Create Refreshed and up to date evidence statistics standards and procedures Updated chapters on the deteriorating patient and advanced life support to reflect recent international ILCOR and national ARC practice guidelines New chapter on caring for individuals with intellectual disability and autism Increased focus throughout on culturally safe care that aims to improve access to services and improved health outcomes for M ori Aboriginal and Torres Strait Islander people Focus on the impact of COVID 19 Enhanced content on gender equity mental health intellectual disability and autism harm minimisation for people experiencing the effects of alcohol and other drugs patient safety and nurses wellbeing and safety at work Updated Evolve resources for students and instructors

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Dynamic Police Training Ann R. Bumbak, 2017-08-21 As police work has become increasingly professionalized classrooms have become a preferred environment for training However the best preparation for police work has traditionally been conducted on the job Dynamic Police Training partners the experienced law enforcement officers street smart perspective of what makes training work with a professional educators book smart approach to writing curriculum to achieve the best results in police training programs

Journal of the Audio Engineering Society Audio Engineering Society, 1969 Some issues include Directory of members

Pragmatic and Discourse Disorders Louise Cummings, 2015-10 Questions and exercises on the full range of pragmatic and discourse disorders allow readers to develop and test their understanding

Teaching Science Karl Maton, J. R. Martin, Y. J. Doran, 2021-04-25 Science has never been more important yet science education faces serious challenges At present science education research only sees half the picture focusing on how students learn and their changing conceptions Both teaching practice and what is taught science knowledge itself are missing This book offers new interdisciplinary ways of

thinking about science teaching that foreground the forms taken by science knowledge and the language imagery and gesture through which they are expressed This book brings together leading international scholars from Systemic Functional Linguistics a long established approach to language and Legitimation Code Theory a rapidly growing sociological approach to knowledge practices It explores how to bring knowledge language and pedagogy back into the picture of science education but also offers radical innovations that will shape future research Part I sets out new ways of understanding the role of knowledge in integrating mathematics into science teaching scientific explanations and using multimedia resources such as animations Part II provides new concepts for showing the role of language in complex scientific explanations in how scientific taxonomies are built and in combining with mathematics and images to create science knowledge Part III draws on the approaches to explore how more students can access scientific knowledge how to teach professional reasoning the role of body language in science teaching and making mathematics understandable to all learners Teaching Science offers major leaps forward in understanding knowledge language and pedagogy that will shape the research agenda far beyond science education

Essentials of Health Care Finance William O. Cleverley,James O. Cleverley,Ashley V. Parks,2023-12-08

Blending the topics of both accounting and finance Essentials of Health Care Finance is a relevant readable and easily applied resource for health care management students and executives that explores finance theory and its practical application in health care across a full range of facilities from hospitals home health agencies and skilled nursing facilities to surgical centers physician practices and integrated health systems Carefully revised the Ninth Edition of Essentials of Health Care Finance has been updated with additional reflection examples and application so that individuals with no healthcare experience can benefit from additional elaboration on key concepts such as physician practice management flex budgeting and strategic financial planning The Ninth Edition also explores trends in national health expenditures and physician organizations and alignment changes in health services financing and utilization since the enactment of the Affordable Care Act ACA

Music, Education, and Religion Alexis Anja Kallio,Philip Alperson,Heidi Westerlund,2019-09-20 Essays examining the role of religion in music education from a variety of perspectives Music Education and Religion Intersections and Entanglements explores the critical role that religion can play in formal and informal music education As in broader educational studies research in music education has tended to sidestep the religious dimensions of teaching and learning often reflecting common assumptions of secularity in contemporary schooling in many parts of the world This book considers the ways in which the forces of religion and belief construct and complicate the values and practices of music education including teacher education curriculum texts and teaching repertoires The contributors to this volume embrace a range of perspectives from a variety of disciplines examining religious agnostic skeptical and atheistic points of view Music Education and Religion is a valuable resource for all music teachers and scholars in related fields interrogating the sociocultural and epistemological underpinnings of music repertoires and global educational practices The book serves as a study volume for

all those who are active in this field and provides both systematic reflections and useful empirical studies A further impressive feature is the regional and religious breadth of the content presented and examined Wolfgang W M ller Reading Religion

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