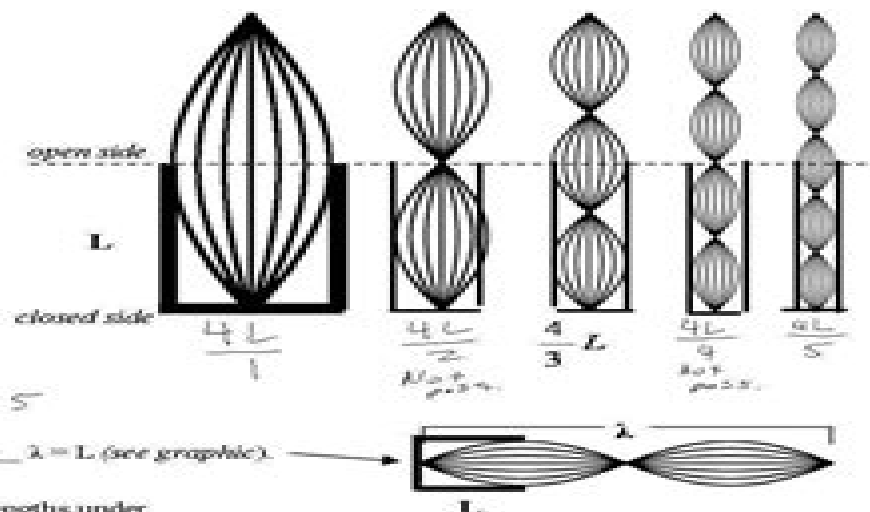


Harmonics in Closed Pipes

- 19) At the open end of a pipe is there a node or antinode?
- 20) At the closed end of a pipe is there a node or antinode?
So, there MUST BE a node at the closed end and the center of an antinode at the open end for the harmonic to exist.
- 21) On the graphic at the right, let's pretend we have a pipe closed at one end, as shown on the fundamental. The length of the pipe is "L".
- 22) Draw this same length pipe around each of the harmonics. The open end of each pipe will stop at the dotted line.
- 23) Which harmonics can be produced in this pipe (which have an antinode at the open end)? 1, 3, 5
- 24) So, for a pipe closed on one end (a closed pipe), give the sequence of what harmonics can be present. n can only = 1, 3, 5

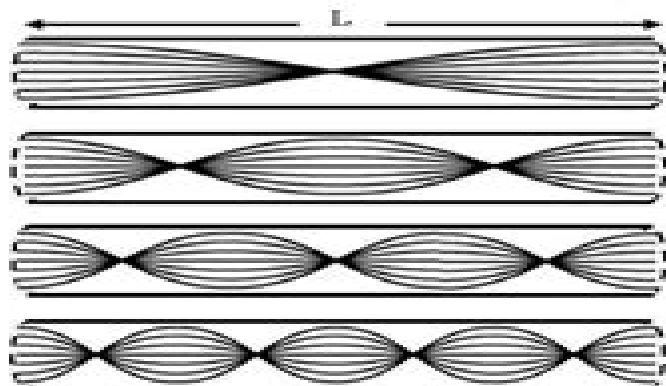


- 25) Since $2AN = 1\lambda$, then the first harmonic in this diagram, $\frac{1}{4}\lambda$ $\lambda = L$ (see graphic).
- 26) So $\lambda = \underline{\frac{4}{1}} L$. Write this under H_1 .
- 27) Use the same process as for the first harmonic, write the wavelengths under the harmonics (even the ones that can't really exist). H_2 and H_3 should be obvious.
- 28) Remembering Q7-9: there must be a pattern that includes "n" sequentially. Find it.
- 29) At the right, write the equation for the wavelength of a harmonic in a closed pipe:
- 30) But which "n's" are possible? 1, 3, 5...

$$\lambda_{\text{closed pipe}} = \frac{4L}{n}$$

- 31) Calculate the wavelength of the third harmonic in a 60 cm long closed pipe (remember to convert to m).
 $\lambda_1 = 4L = 4(.6) = 2.4 \text{ m}$ $\lambda_3 = \frac{4L}{3} = \frac{2.4}{3} = .8 \text{ m}$

Harmonics in Open Pipes



- 32) Remembering the rule about nodes and antinodes, what must be present at the end of a pipe that is open?
- 33) In order for a pipe to make a sound, it must have a standing wave in it, meaning it must have at least 1 node and 1 antinode (or more).
- 34) For each successive harmonic the number of antinodes goes up by 1.
- 35) For each successive harmonic the number of nodes goes up by 1.
- 36) In the four open pipes at the left, draw the first four harmonics (number 1 is done for you). The nodes will be equally spaced and the center of an antinode must be at each end.
- 37) On a string you count the number of AN to figure out which harmonic it is. For an open pipe, you count the number of Nodes to figure out which harmonic it is.
- 38) Which harmonics can be present in an open pipe (which "n's" are present)? all of 'em

- 39) Using the same logic, figure out the sequence and give the equation for λ in an open pipe. (Hint: the drawing above will help.)

$$\lambda_{\text{open pipe}} = \frac{2L}{n}$$

$n = \text{all}$

- 40) What is the wavelength of the 3rd harmonic in a 80 cm long open pipe?

$$\lambda_1 = 1.6 \text{ m}$$

$$\lambda_3 = \frac{1.6}{3} = .53 \text{ m}$$

Sound Stephen Murray Key

AN Whitehead



Sound Stephen Murray Key:

A History of English Sounds Henry Sweet, 2023-03-03 Reprint of the original first published in 1874 Sound & Images in Films on Art , 1991 Contains summaries of presentations made during the conference and synopses of films shown

Sounds of the Underground Stephen Graham, 2020-03-06 In basements dingy backrooms warehouses and other neglected places around the world music is being made that doesn't fit neatly into popular or classical categories and genres whose often extreme sounds and tiny concerts hover on the fringes of these commercial and cultural mainstreams The term underground music as it's being used here connects various forms of music making that exist outside or on the fringes of mainstream institutions and culture such as noise free improvisation and extreme metal This is music that makes little money that's noisy and exploratory in sound and that's largely independent from both the market and from traditional high art institutions It sometimes exists at the fringes of these commercial and cultural institutions as for example with experimental metal or improv but for the most part it's removed from the mainstream underground as we see with noise artists such as Werewolf Jerusalem or Ramleh obscure black metal artists such as Lord Foul and improvisers such as Maggie Nicols In response to a lack of previous scholarly discussion Graham provides a cultural political and aesthetic mapping of this broad territory By outlining the historical background but focusing on the digital age the underground and its fringes can be seen as based in radical anti capitalist politics or radical aesthetics while also being tied to the political contexts and structures of late capitalism The book explores these various ideas of separation and captures through interviews and analysis a critical account of both the music and the political and cultural economy of the scene Sight and Sound , 2004 *Sound Design Theory and Practice* Leo Murray, 2019-05-22 Sound Design Theory and Practice is a comprehensive and accessible guide to the concepts which underpin the creative decisions that inform the creation of sound design A fundamental problem facing anyone wishing to practice study teach or research about sound is the lack of a theoretical language to describe the way sound is used and a comprehensive and rigorous overarching framework that describes all forms of sound With the recent growth of interest in sound studies there is an urgent need to provide scholarly resources that can be used to inform both the practice and analysis of sound Using a range of examples from classic and contemporary cinema television and games this book provides a thorough theoretical foundation for the artistic practice of sound design which is too frequently seen as a technical or secondary part of the production process Engaging with practices in film television and other digital media Sound Design Theory and Practice provides a set of tools for systematic analysis of sound for both practitioners and scholars

Art as Social Practice xtine burrough, Judy Walgren, 2022-03-07 With a focus on socially engaged art practices in the twenty first century this book explores how artists use their creative practices to raise consciousness form communities create change and bring forth social impact through new technologies and digital practices Suzanne Lacy's Foreword and section introduction authors Anne Balsamo Harrell Fletcher Natalie Loveless Karen Moss and Stephanie Rothenberg present

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(M.R.C.S.),1804 *Canadian Almanac and Directory* ,1911 *A dialogue concerning oratory, or the causes of corrupt eloquence. Geographical table* Cornelius Tacitus,Arthur Murphy,1805

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