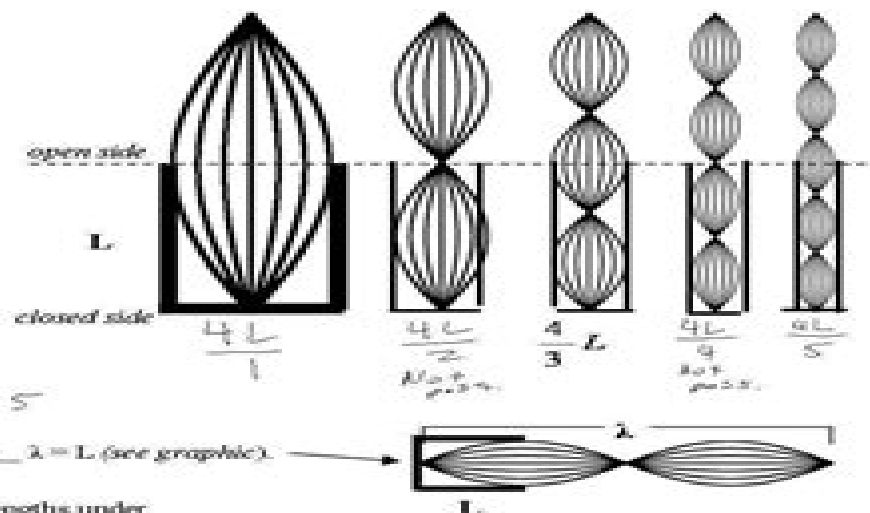


Harmonics in Closed Pipes

- 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



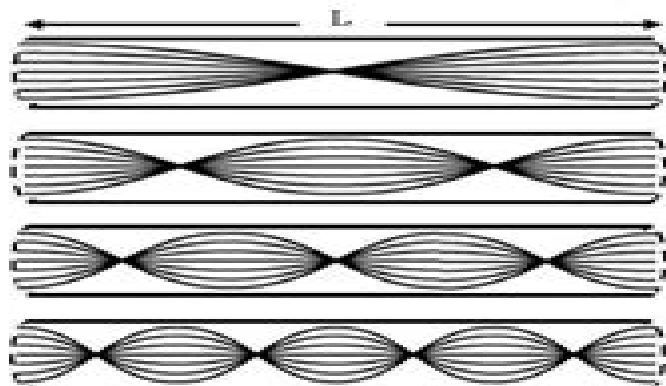
- 25) Since $2AN = 1\lambda$, then the first harmonic in this diagram, $\frac{1}{4}\lambda$ $\lambda = L$ (see graphic).
- 26) So $\lambda = \underline{\frac{4}{1}} L$. Write this under H_1 .

- 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 Key Stephen Murray 2004

Lara Ehrenfried



Sound Key Stephen Murray 2004:

Haptic and Audio Interaction Design David McGookin, Stephen Brewster, 2006-08-18 Here are the proceedings of the First International Workshop on Haptic and Audio Interaction Design HAID 2006 The book presents 15 revised full papers in a variety of disciplines ranging from psychology to art showcasing how haptics and sound can improve user interaction with computers helping people with various kinds of disabilities and visual impairment Also addresses psychophysics art and leisure and mobile applications that improve selections in virtual environments *Books In Print 2004-2005* Ed Bowker Staff, Staff Bowker, Ed, 2004

Literature and Sound Film in Mid-Century Britain Lara Ehrenfried, 2025-03-27 What happened to cinema and literature when synchronized sound was introduced to the film industry in the late 1920s Literature and Sound Film in Mid Century Britain studies the paths of film and text following this event It asks how British cinema responded to the introduction of sound and how mid century literature took up the challenge of the synchronized audio visual entertainment experience offered by this media change By examining the technological and industrial histories of film and its narrative strategies and by drawing links to twentieth century literary culture this study offers a new way of approaching mid century writing and its media ecology Developing innovative audio visual close readings this book offers a multi sensory multi media approach that reframes the relationships between cinema and literature in the twentieth century The study addresses a wide range of film genres such as musical film screwball comedy the thriller documentary and melodrama alongside the writings of a large group of authors including Elizabeth Bowen Patrick Hamilton Evelyn Waugh Lewis Grassie Gibbon Henry Green Jean Rhys Ivy Compton Burnett and Eric Ambler It covers an expansive range of films and texts of the 1930s and 1940s and invites readers to comprehensively rethink mid century media culture by arguing for a growing synergy of film and text

Key Concepts in Critical Cultural Studies Linda Steiner, Clifford Christians, 2010-10-01 This volume brings together sixteen essays on key and intersecting topics in critical cultural studies from major scholars in the field Taking into account the vicissitudes of political social and cultural issues the contributors engage deeply with the evolving understanding of critical concepts such as history community culture identity politics ethics globalization and technology The essays address the extent to which these concepts have been useful to scholars policy makers and citizens as well as the ways they must be rethought and reconsidered if they are to continue to be viable Each essay considers what is known and understood about these concepts The essays give particular attention to how relevant ideas themes and terms were developed elaborated and deployed in the work of James W Carey the founding father of cultural studies in the United States The contributors map how these important concepts including Carey's own work with them have evolved over time and how these concepts intersect The result is a coherent volume that redefines the still emerging field of critical cultural studies Contributors are Stuart Allan Jack Zeljko Bratich Clifford Christians Norman Denzin Mark Fackler Robert Fortner Lawrence Grossberg Joli Jensen Steve Jones John Nerone Lana Rakow Quentin J Schultze Linda Steiner Angharad N Valdivia Catherine Warren Frederick Wasser

and Barbie Zelizer *Sounding Out Japan* Richard Chenhall, Tamara Kohn, Carolyn S. Stevens, 2020-11-26 This book takes the reader on a sensory ethnographic tour in Japan and describes the many ways sounds seep into everyday experiences So many ethnographies describe local worlds with a deep attention to what is seen and what people say but with a limited understanding of the broader sonic environments that enrich and inform everyday life Through a focus on sounds both real and imagined the volume employs a critical ear to engage with a range of sonically enriched encounters including crosswalk melodies in streetscapes announcements and jingles at train stations water features in gardens dosimeters in nuclear affected zones sounds of training in music and martial arts halls and celebrations under blossoming cherry trees The authors use various analytic frames to understand the communicative and symbolic aspects of sounds and to sense the layers of historical meaning embodied action and affect associated with sonic environments **Moravian Soundscapes** Sarah Justina Eyerly, 2020-05-05 In *Moravian Soundscapes* Sarah Eyerly contends that the study of sound is integral to understanding the interactions between German Moravian missionaries and Native communities in early Pennsylvania In the mid 18th century when the frontier between settler and Native communities was a shifting spatial and cultural borderland sound mattered People listened carefully to each other and the world around them In Moravian communities cultures of hearing and listening encompassed and also superseded musical traditions such as song and hymnody Complex biophonic geophonic and anthrophonic acoustic environments or soundscapes characterized daily life in Moravian settlements such as Bethlehem Nain Gnadent and Friedenshten Through detailed analyses and historically informed recreations of Moravian communal environmental and religious soundscapes and their attendant hymn traditions *Moravian Soundscapes* explores how sounds musical and nonmusical human and nonhuman shaped the Moravians religious culture Combined with access to an interactive website that immerses the reader in mid 18th century Pennsylvania and framed with an autobiographical narrative *Moravian Soundscapes* recovers the roles of sound and music in Moravian communities and provides a road map for similar studies of other places and religious traditions in the future *The Immersive Enclosure* Paul Roquet, 2022-05-24 Winner 2023 Lewis Mumford Award for Outstanding Scholarship in the Ecology of Technics Media Ecology Association Although virtual reality promises to immerse a person in another world its true power lies in its ability to sever a person's spatial situatedness in this one This is especially clear in Japan where the VR headset has been embraced as a way to block off existing social environments and reroute perception into more malleable virtual platforms Is immersion just another name for enclosure In this groundbreaking analysis of virtual reality Paul Roquet uncovers how the technology is reshaping the politics of labor gender home and nation He examines how VR in Japan diverged from American militarism and techno utopian visions and became a tool for renegotiating personal space Individuals turned to the VR headset to immerse themselves in three dimensional worlds drawn from manga video games and genre literature The Japanese government promised VR operated robots would enable a new era of remote work targeting those who could not otherwise leave home

Middle aged men and corporate brands used VR to reimagine themselves through the virtual bodies of anime styled teenage girls At a time when digital platforms continue to encroach on everyday life The Immersive Enclosure takes a critical look at these attempts to jettison existing social realities and offers a bold new approach for understanding the media environments to come

The Republican War on Science Chris Mooney,2007-03-16 Science has never been more crucial to deciding the political issues facing the country Yet science and scientists have less influence with the federal government than at any time since the Eisenhower administration In the White House and Congress today findings are reported in a politicized manner spun or distorted to fit the speaker s agenda or when they re too inconvenient ignored entirely On a broad array of issues stem cell research climate change missile defense abstinence education product safety environmental regulation and many others the Bush administration s positions fly in the face of overwhelming scientific consensus Federal science agencies once fiercely independent under both Republican and Democratic presidents are increasingly staffed by political appointees and fringe theorists who know industry lobbyists and evangelical activists far better than they know the science This is not unique to the Bush administration but it is largely a Republican phenomenon born of a conservative dislike of environmental health and safety regulation and at the extremes of evolution and legalized abortion In The Republican War on Science Chris Mooney ties together the disparate strands of the attack on science into a compelling and frightening account of our government s increasing unwillingness to distinguish between legitimate research and ideologically driven pseudoscience

Ethnomusicology Jennifer C. Post,2013-09-05 Ethnomusicology A Contemporary Reader is designed to supplement a textbook for an introductory course in ethnomusicology It offers a cross section of the best new writing in the field from the last 15 20 years Many instructors supplement textbook readings and listening assignments with scholarly articles that provide more in depth information on geographic regions and topics and introduce issues that can facilitate class or small group discussion These sources serve other purposes as well they exemplify research technique and format and serve as models for the use of academic language and collectively they can also illustrate the range of ethnographic method and analytical style in the discipline of ethnomusicology Ethnomusicology A Contemporary Reader serves as a basic introduction to the best writing in the field for students professors and music professionals It is perfect for both introductory and upper level courses in world music

Acoustic Territories, Second Edition Brandon LaBelle,2019-10-17 The revised edition of Acoustic Territories Sound Culture and Everyday Life offers an expansive reading of auditory life It provides a careful consideration of the performative dynamics inherent to sounding and listening and discusses how sound studies may illuminate understandings of contemporary society Combining research on urbanism popular culture street life and sonic technologies Acoustic Territories opens up a range of critical perspectives it challenges debates surrounding noise pollution and charts an acoustic politics of space by engaging auditory experience as found within particular cultural histories and related ideologies Brandon LaBelle traces sound culture through a topographic structure from underground territories to the

home and further into the rhythms and vibrations of streets and neighborhoods and finally to the sky itself as an arena of transmitted imaginaries The new edition includes an additional global territory of the relational positioning acoustics as a range of everyday practices that rework dominant tonalities Questions of orientation and emplacement are critically raised reframing listening as multi modal and intrinsic to resistant socialities and what the author terms acts of compositioning The book is fully updated to include new relevant research and references surfacing since 2010 as well as a new preface to the second edition Acoustic Territories continues to uncover the embedded tensions and potentialities inherent to sound as it exists in the everyday spaces around us

Studying Congregational Music Andrew Mall, Jeffers Engelhardt, Monique M. Ingalls, 2021-02-15 Studying the role of music within religious congregations has become an increasingly complex exercise The significant variations in musical style and content between different congregations require an interdisciplinary methodology that enables an accurate analysis while also allowing for nuance in interpretation This book is the first to help scholars think through the complexities of interdisciplinary research on congregational music making by critically examining the theories and methods used by leading scholars in the field An international and interdisciplinary panel of contributors introduces readers to a variety of research methodologies within the emerging field of congregational music studies Utilizing insights from fields such as communications studies ethnomusicology history liturgical studies popular music studies religious studies and theology it examines and models methodologies and theoretical perspectives that are grounded in each of these disciplines In addition this volume presents several key issues to ground these interpretive frameworks in the context of congregational music studies These include topics like diaspora ethics gender and migration This book is a new milestone in the study of music amongst congregations detailing the very latest in best academic practice As such it will be of great use to scholars of religious studies music and theology as well as anyone engaging in ethnomusicological studies more generally

Displacing Place Sharon Kleinman, 2007 Displacing Place Mobile Communication in the Twenty first Century addresses the innovative unanticipated and far reaching ways that mobile information and communication technologies ICTs are altering how we work play and relate to one another This extraordinary collection of new essays by leading scholars and professionals from a range of disciplines reveals the effects implications and future of mobile communication in a reader friendly balance of theoretical and empirical chapters Displacing Place is a vital book for students scholars professionals and all readers interested in social and technological trends in the twenty first century

Alejandro Amenábar Barry Jordan, 2019-01-04 Since the release of his first feature in 1996 Alejandro Amenábar has become the golden boy of Spanish filmmaking a bankable star director whose brand virtually guarantees quality big audiences and domestic box office success He has directed three of the highest grossing movies in Spanish film history and has enjoyed enormous international and critical acclaim including an Oscar for Best Foreign Film for Mar Adentro The Sea Inside 2004 This book is the first full length study in English of Amenábar's shorts and feature films It provides detailed analysis of his engagement with popular

film genres as the basis for an auteur cinema and incorporates a reappraisal of his auteurism as fundamentally decentred and shared. An essential resource for students, scholars and fans of Amen, but the book will also appeal to a wider readership including professionals in the film media and culture industries as well as those who have a general interest in the best of Spanish, European and world cinema.

Describing Prescriptivism Ingrid Tieken-Boon van Ostade, 2019-10-08. Describing Prescriptivism provides a topical and thought provoking analysis of linguistic prescriptivism in British and American English from a historical as well as present day perspective. Focusing on usage guides and usage problems, the book takes a three fold approach to present an in depth analysis of the topic featuring a detailed study of the advice provided in usage guides over the years, an authoritative comparison of this advice with actual usage as recorded in British and American corpora including the HUGE Hyper Usage Guide of English database developed specifically to enable this line of study as well as more mainstream corpora such as COCA, COHA and the BNC, a close analysis of the attitudes to particular usage problems among the general public based on surveys distributed online through the Bridging the Unbridgeable research project's blog. With extensive case studies to illustrate and support claims throughout, this comprehensive study is key reading for students and researchers of prescriptivism, the history of English and sociolinguistics. Found at <https://bridgingtheunbridgeable.com>

Murray & Nadel's Textbook of Respiratory Medicine E-Book V. Courtney Broaddus, Joel D. Ernst, Talmadge E. King Jr, Stephen C. Lazarus, Kathleen F. Sarmiento, Lynn M. Schnapp, Renee D. Stapleton, Michael B. Gotway, 2021-05-28. Known for its clear readability, thorough coverage and expert authorship, Murray advanced ultrasound applications and procedures, interventional pulmonology, immunotherapy, lung cancer, targeted therapy, outbreaks, pandemics and bioterrorism point of care ultrasound, use of high flow oxygen and more. Includes extensively reorganized sections on basic science, pleural disease and sleep, with new chapters and approaches to the topics. Features more than 1,450 anatomic, algorithmic and radiologic images, 400 are new including CT, PET, MR and HRCT, plus extensive online only content, 200 procedural and conceptual videos plus audio clips of lung sounds. Brings you up to date with the latest respiratory drugs, mechanisms of action, indications, precautions, adverse effects and recommendations, with increased emphasis on algorithms to illustrate decision making. Enhanced eBook version included with purchase. Your enhanced eBook allows you access to all of the text, figures, reporting templates and references from the book on a variety of devices.

Sustainable Groundwater Management Jean-Daniel Rinaudo, Cameron Holley, Steve Barnett, Marielle Montginoul, 2020-03-16. This book describes and analyses the diversity of possible approaches and policy pathways to implement sustainable groundwater development based on a comparative analysis of numerous quantitative management case studies from France and Australia. This unique book brings together water professionals and academics involved for several decades in groundwater policy making, planning or operational management to reflect on their experience with developing and implementing groundwater management policy. The data and analysis presented accordingly makes a significant contribution to the empirical water management literature.

by providing novel real world insights unpublished elsewhere The originality of the contributions also lies in the different disciplinary perspectives hydrogeology economics planning and social sciences in particular adopted in many chapters The book offers a unique comparative analysis of France Australia and experiences in countries such as Chile and the US to identify similarities but also fundamental differences which are analysed and presented as alternative policy options these differences being mainly related to the role of the state the community and market mechanisms in groundwater management

Schlüsselwerke der Science & Technology Studies Diana Lengersdorf, Matthias Wieser, 2014-10-31 Die Science Technology Studies sind ein interdisziplinäres und vor allem internationales Forschungsfeld das sich mit den Wechselverhältnissen von Wissenschaft Technik und Gesellschaft beschäftigt In Theorie und Empirie erforschen sie die zunehmende Verwissenschaftlichung von Technik und Gesellschaft die Technisierung von Wissenschaft und Gesellschaft sowie die Vergesellschaftung von Wissenschaft und Technik Mit der Fokussierung auf Wissenschaft und Technik in Aktion ist die Wissenschafts- und Technikforschung gegenüber der Einhegung diverser Erkenntniszugänge skeptisch und sensibel gegenüber der Inklusion und Exklusion verschiedener Gruppen und Akteure innerhalb wissenschaftlicher Diskurse Der vorliegende Band der Schlüsselwerke der Science Technology Studies leistet einen Beitrag die Perspektiven der Wissenschafts- und Technikforschung im deutschsprachigen Raum sichtbar zu machen und inhaltliche Impulse für Studium Lehre und Forschung zu bieten

Technologies for Inclusive Education: Beyond Traditional Integration Approaches Griol Barres, David, 2012-11-30 By providing students with the opportunities to receive a high quality education regardless of their social or cultural background inclusive education is a new area that goes beyond traditional integration approaches These approaches hope to provide the educative system with the ability to adapt to the diversity of its students Technologies for Inclusive Education Beyond Traditional Integration Approaches introduces the basic concepts current research guidelines and future perspectives on the current state of these approaches This book aims to make inclusive education a reality in the future by highlighting technological advances in applied e learning cognitive learning and education multimedia Novel approaches to human computer interaction are essential to make these contents available for every student regardless of their disabilities and learning styles

The Routledge International Handbook of Practice-Based Research Craig Vear, 2021-12-30 The Routledge International Handbook of Practice Based Research presents a cohesive framework with which to conduct practice based research or to support manage and supervise practice based researchers It has been written with an inclusive approach with the intention of presenting deep and meaningful knowledge for the benefit of all readers This handbook has been designed to present specific detail of practice based research by outlining its shared traits with all forms of research and to highlight its core distinguishing features into a cohesive principled and methodical approach To this end the handbook is presented in five sections 1 Practice Based Research 2 Knowledge 3 Method 4 The Practice Based PhD and 5 Practitioner Voices Each section begins with a leading chapter that outlines each of the distinct areas as they relate to

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Billboard ,2004-09-18 In its 114th year Billboard remains the world s premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends

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