Music Physics And Engineering Olson Myflashore

While the history of musical instruments is nearly as old as civilisation itself, the science of acoustics is quite recent. By understanding the physical basis of how instruments are used to make music, one hopes ultimately to be able to give physical criteria to distinguish a fine instrument from a mediocre one. At that point science may be able to come to the aid of art in improving the design and performance of musical instruments. As yet, many of the subtleties in musical sounds of which instrument makers and musicians are aware remain beyond the reach of modern acoustic measurements. This book describes the results of such acoustical investigations - fascinating intellectual and practical exercises. Addressed to readers with a reasonable grasp of physics who are not put off by a little mathematics, this book discusses most of the traditional instruments currently in use in Western music. A guide for all who have an interest in music and how it is produced, as well as serving as a comprehensive reference for those undertaking research in the field.

The challenges and rewards of scientific collaboration enabled by information and communication technology, from theoretical approaches to in-depth case studies. Modern science is increasingly collaborative, as signaled by rising numbers of coauthored papers, papers with international coauthors, and multi-investigator grants. Historically, scientific collaborations were carried out by scientists in the same physical

location--the Manhattan Project of the 1940s, for example, involved thousands of scientists gathered on a remote plateau in Los Alamos, New Mexico. Today, information and communication technologies allow cooperation among scientists from far-flung institutions and different disciplines. Scientific Collaboration on the Internet provides both broad and in-depth views of how new technology is enabling novel kinds of science and engineering collaboration. The book offers commentary from notable experts in the field along with case studies of large-scale collaborative projects, past and ongoing. The projects described range from the development of a national virtual observatory for astronomical research to a National Institutes of Health funding program for major multi-laboratory medical research; from the deployment of a cyberinfrastructure to connect experts in earthquake engineering to partnerships between developed and developing countries in AIDS research. The chapter authors speak frankly about the problems these projects encountered as well as the successes they achieved. The book strikes a useful balance between presenting the real stories of collaborations and developing a scientific approach to conceiving, designing, implementing, and evaluating such projects. It points to a future of scientific collaborations that build successfully on aspects from multiple disciplines. Contributors Mark S. Ackerman, Paul Avery, Matthew Bietz, Jeremy P. Birnholtz, Nathan Bos, Geoffrey C. Bowker, Randal Butler, David Conz, Eric Cook, Dan Cooney, Jonathon Cummings, Erik Dahl, Mark Ellisman, Ixchel Faniel, Thomas A. Finholt, Ian Foster,

Jeffrey S. Grethe, Edward J. Hackett, Robert J. Hanisch, Libby Hemphill, Tony Hey, Erik C. Hofer, Mark James, Carl Kessleman, Sara Kiesler, Timothy L. Killeen, Airong Luo, Kelly L. Maglaughlin, Doru Marcusiu, Shawn McKee, William K. Michener, James D. Myers, Marsha Naidoo, Michael Nentwich, Gary M. Olson, Judith S. Olson, James Onken, Andrew Parker, John N. Parker, Mary Puetz, David Ribes, Kathleen Ricker, Diana Rhoten, Michael E. Rogers, Titus Schleyer, Diane H. Sonnenwald, B. F. Spencer, Jr., Stephanie D. Teasley, Anne Trefethen, Robert B. Waide, Mary C. Whitton, William Wulf, Jason Yerkie, Ann Zimmerman

The classic acoustics reference! This widely-used book offers a clear treatment of the fundamental principles underlying the generation, transmission, and reception of acoustic waves and their application to numerous fields. The authors analyze the various types of vibration of solid bodies and the propagation of sound waves through fluid media.

The Routledge Companion to Aural Skills Pedagogy offers a comprehensive survey of issues, practice, and current developments in the teaching of aural skills. The volume regards aural training as a lifelong skill that is engaged with before, during, and after university or conservatoire studies in music, central to the holistic training of the contemporary musician. With an international array of contributors, the volume captures diverse perspectives on aural-skills pedagogy, and enables conversation between different regions. It addresses key new developments such as the use of technology for

aural training and the use of popular music. This book will be an essential resource and reference for all university and conservatoire instructors in aural skills, as well as students preparing for teaching careers in music.

Music in the Human Experience: An Introduction to Music Psychology, Second Edition, is geared toward music students yet incorporates other disciplines to provide an explanation for why and how we make sense of music and respond to it—cognitively, physically, and emotionally. All human societies in every corner of the globe engage in music. Taken collectively, these musical experiences are widely varied and hugely complex affairs. How did human beings come to be musical creatures? How and why do our bodies respond to music? Why do people have emotional responses to music? Music in the Human Experience seeks to understand and explain these phenomena at the core of what it means to be a human being. New to this edition: Expanded references and examples of non-Western musical styles Updated literature on philosophical and spiritual issues Brief sections on tuning systems and the acoustics of musical instruments A section on creativity and improvisation in the discussion of musical performance New studies in musical genetics Greatly increased usage of explanatory figures

This volume is an anthology of current groundbreaking research on social practice art. Contributing scholars provide a variety of assessments of recent projects as well as earlier precedents, define approaches to art production, and provide crucial political

context. The topics and art projects covered, many of which the authors have experienced firsthand, represent the work of innovative artists whose creative practice is utilized to engage audience members as active participants in effecting social and political change. Chapters are divided into four parts that cover history, specific examples, global perspectives, and critical analysis.

Since the nineteenth century, mass-production, consumerism and cycles of material replacement have accelerated; increasingly larger amounts of things are increasingly victimized rapidly and made redundant. At the same time, processes of destruction have immensely intensified, although largely overlooked when compared to the research and social significance devoted to consumption and production. The outcome is a ruin landscape of derelict factories, closed shopping malls, overgrown bunkers and redundant mining towns; a ghostly world of decaying modern debris normally omitted from academic concerns and conventional histories. The archaeology of the recent or contemporary past has grown fast during the last decade. This development has been concurrent with a broader popular, artistic and scholarly interest in modern ruins in general. Ruin Memories explores how the ruins of modernity are conceived and assigned cultural value in contemporary academic and public discourses, reassesses the cultural and historical value of modern ruins and suggests possible means for reaffirming their cultural and historic significance. Crucial for this reassessment is a concern with decay and ruination, and with the role things play in expressing the

neglected, unsuccessful and ineffable. Abandonment and ruination is usually understood negatively through the tropes of loss and deprivation; things are degraded and humiliated while the information, knowledge and memory embedded in them become lost along the way. Without even ignoring its many negative and traumatizing aspects, a main question addressed in this book is whether ruination also can be seen as an act of disclosure. If ruination disturbs the routinized and ready-to-hand, to what extent can it also be seen as a recovery of memory as exposing meanings and presences that perhaps are only possible to grasp at second hand when no longer immersed in their withdrawn and useful reality? Anybody interested in the archaeology of the contemporary past will find Ruin Memories an essential guide to the very latest theoretical research in this emerging field of archaeological thought.

Digitising Enterprise in an Information Age is an effort that focuses on a very vast cluster of Enterprises and their digitising technology involvement and take us through the road map of the implementation process in them, some of them being ICT, Banking, Stock Markets, Textile Industry & ICT, Social Media, Software Quality Assurance, Information Systems Security and Risk Management, Employee Resource Planning etc. It delves on increased instances of cyber spamming and the threat that poses to e-Commerce and Banking and tools that help and Enterprise toward of such threats. To quote Confucius, "As the water shapes itself to the vessel that contains it, so does a wise man adapts himself to circumstances." And the journey of evolution and

progression will continue and institutions and enterprises will continue to become smarter and more and more technology savvy. Enterprises and businesses across all genre and spectrum are trying their level best to adopt to change and move on with the changing requirements of technology and as enterprises and companies upgrade and speed up their digital transformations and move their outdate heirloom systems to the cloud, archaic partners that don't keep up will be left behind. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka. "A lucid and passionate case for a more mindful way of listening. . . . Anyone who has ever clapped, hollered or yodeled at an echo will delight in [Cox's] zestful curiosity."—New York Times Trevor Cox is on a hunt for the sonic wonders of the world. A renowned expert who engineers classrooms and concert halls, Cox has made a career of eradicating bizarre and unwanted sounds. But after an epiphany in the London sewers, Cox now revels in exotic noises—creaking glaciers, whispering galleries, stalactite organs, musical roads, humming dunes, seals that sound like alien angels, and a Mayan pyramid that chirps like a bird. With forays into archaeology, neuroscience, biology, and design, Cox explains how sound is made and altered by the environment, how our body reacts to peculiar noises, and how these mysterious wonders illuminate sound's surprising dynamics in everyday settings—from your bedroom to the opera house. The

Sound Book encourages us to become better listeners in a world dominated by the visual and to open our ears to the glorious cacophony all around us.
Music, Physics and EngineeringCourier Corporation
An important contribution to the multi-disciplinary study of literacy, narrative and culture, this work argues that literacy is perhaps best described as an ensemble of socially and historically embedded activities of cultural practices. It suggests viewing written language, producing and distributing, deciphering and interpreting signs, are closely related to other cultural practices such as narrative and painting. The papers of the first and second parts illustrate this view in contexts that range from the pre-historical beginnings of tracking signs' in hunter-gatherer cultures, and the emergence of modern literate traditions in Europe in the 17th to 19th century, to the future of electronically mediated writing in times of the post-Gutenberg galaxy. The chapters of the third present results of recent research in developmental and educational psychology. Contributions by leading experts in the field make the point that there is no theory and history of writing that does not presuppose a theory of culture and social development. At the same time, it demonstrates that every theory and history of culture must unavoidably entail a theory and history of writing and written culture. This book brings together perspectives on literacy from psychology, linguistics, history and sociology of

literature, philosophy, anthropology, and history of art. It addresses these issues in plain language – not coded in specialized jargon – and addresses a multi-disciplinary forum of scholars and students of literacy, narrative and culture. An acclaimed multi-volume treatise presents precise and creative exercises for serious painists and teaches technique, pedaling, fingering, and other methods. Written clearly and concisely, this book thoroughly examines all aspects of the production, reception, and reproduction of sound. Dr. Harry Olson discusses sound waves, characteristics of musical instruments, how the ear hears, and how sound is reproduced through various devices. Of interest to music students, teachers, conductors, and recording engineers. Illustrated. Copyright © Libri GmbH. All rights reserved. This book examines folk music and dance revival movements in Russia, exploring why this folk culture has come to represent Russia, how it has been approached and produced, and why memory and tradition, in these particular forms, have taken on particular significance in different periods. Above all it shows how folk "tradition" in Russia is an artificial cultural construct, which is periodically reinvented, and it demonstrates in particular how the "folk revival" has played a key role in strengthening Russian national consciousness in the post-Soviet period.

Gorgeously illustrated and authoritatively written, Fender 75 Years is the officially licensed celebration of the legendary brand's landmark anniversary, covering all of Fender's iconic guitars, amps, and basses.

This functional new volume introduces professionals to the Circumplex Model of Family Systems--one of the most respected and widely used approaches of its kind in family studies. Internationally known scholar/practitioners in the marriage and family therapy field demonstrate how the model can be used to assess couple and family dynamics and plan treatment interventions. They extend the use of the Circumplex Model for treating problem families using a range of clinical interventions at both the family level and broader social system level--including specific treatment populations--sex offenders, juvenile delinquents, truants, and multi-problem families. Designed as a multidisciplinary resource, this authoritative and accurate volume will assist social workers, psychologists, pastoral counselors, family therapists, and other mental health professionals who work with individuals in a family treatment context.

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a

copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

This volume examines the shift toward positive and more accurate portrayals of mental illness in entertainment media, asking where these succeed and considering where more needs to be done. With studies that identify and analyze the characters, viewpoints, and experiences of mental illness across film and television, it considers the messages conveyed about mental illness and reflects on how the different texts reflect, reinforce, or challenge sociocultural notions regarding mental illness. Presenting chapters that explore a range of texts from film and television, covering a variety of mental health conditions, including autism, post-traumatic stress disorder (PTSD), depression, and more, this book will appeal to scholars of sociology, cultural and media studies, and mental health.

Landmark book hailed for exceptionally clear, delightfully readable explication of everything acoustically important to music-making. Includes over 300 illustrations. Examples, experiments, and questions conclude each chapter.

This volume explores how television has been a significant conduit for the changing ideas about children and childhood in the United States. Each chapter connects relevant events, attitudes, or anxieties in American culture to an analysis of children or childhood in select American television programs. The essays in this collection explore historical intersections of the family with expectations of childhood, particularly innocence, economic and material conditions, and emerging political and social realities that, at times, present unique challenges to America's children and the collective expectation of what childhood should be.

"Through detailed text and more than two hundred photos, this book chronicles the development and evolution of Gibson's fabulous flat-tops, discusses the musical properites of individual models, and shows why these guitars have been the choice of so many great musicians, professional and amateur alike, over the last eighty years." --Book Jacket.

Defines learning and shows how the learning process is studied. Clearly written and user-friendly, Introduction to the Theories of Learning places learning in its historical perspective and provides appreciation for the figures and theories that have shaped 100 years of learning theory research. The 9th edition has been updated with the most current research in the field. With Pearson's MySearchLab with interactive eText and Experiment's Tool, this program is more user-friendly than ever. Learning Goals Upon completing this book, readers should be able to: Define learning and show how the

learning process is studied Place learning theory in historical perspective Present essential features of the major theories of learning with implications for educational practice Note: MySearchLab does not come automatically packaged with this text. To purchase MySearchLab, please visit: www.mysearchlab.com or you can purchase a ValuePack of the text + MySearchLab (at no additional cost).
Interviewer Effects from a Total Survey Error Perspective presents a comprehensive collection of state-of-the-art research on interviewer-administered survey data collection. Interviewers play an essential role in the collection of the high-quality survey data used to learn about our society and improve the human condition. Although many surveys are conducted using self-administered modes, interviewer-administered modes continue to be optimal for surveys that require high levels of participation, include difficult-to-survey populations, and collect biophysical data. Survey interviewing is complex, multifaceted, and challenging. Interviewers are responsible for locating sampled units, contacting sampled individuals and convincing them to cooperate, asking questions on a variety of topics, collecting other kinds of data, and providing data about respondents and the interview environment. Careful attention to the methodology that underlies survey interviewing is essential for interviewer-administered data collections to succeed. In 2019, survey methodologists, survey practitioners, and survey operations specialists participated in an international workshop at the University of Nebraska-Lincoln to identify best practices for surveys employing interviewers and

outline an agenda for future methodological research. This book features 23 chapters on survey interviewing by these worldwide leaders in the theory and practice of survey interviewing. Chapters include: The legacy of Dr. Charles F. Cannell's groundbreaking research on training survey interviewers and the theory of survey interviewing Best practices for training survey interviewers Interviewer management and monitoring during data collection The complex effects of interviewers on survey nonresponse Collecting survey measures and survey paradata in different modes Designing studies to estimate and evaluate interviewer effects Best practices for analyzing interviewer effects Key gaps in the research literature, including an agenda for future methodological research Written for managers of survey interviewers, survey methodologists, and students interested in the survey data collection process, this unique reference uses the Total Survey Error framework to examine optimal approaches to survey interviewing, presenting state-of-the-art methodological research on all stages of the survey process involving interviewers. Acknowledging the important history of survey interviewing while looking to the future, this one-of-a-kind reference provides researchers and practitioners with a roadmap for maximizing data quality in interviewer-administered surveys.

A comprehensive text and reference that covers all aspects of computer music, including digital audio, synthesis techniques, signal processing, musical input devices, performance software, editing systems, algorithmic composition, MIDI, synthesizer

architecture, system interconnection, and psychoacoustics. The Computer Music Tutorial is a comprehensive text and reference that covers all aspects of computer music, including digital audio, synthesis techniques, signal processing, musical input devices, performance software, editing systems, algorithmic composition, MIDI, synthesizer architecture, system interconnection, and psychoacoustics. A special effort has been made to impart an appreciation for the rich history behind current activities in the field. Profusely illustrated and exhaustively referenced and cross-referenced, The Computer Music Tutorial provides a step-by-step introduction to the entire field of computer music techniques. Written for nontechnical as well as technical readers, it uses hundreds of charts, diagrams, screen images, and photographs as well as clear explanations to present basic concepts and terms. Mathematical notation and program code examples are used only when absolutely necessary. Explanations are not tied to any specific software or hardware. The material in this book was compiled and refined over a period of several years of teaching in classes at Harvard University, Oberlin Conservatory, the University of Naples, IRCAM, Les Ateliers UPIC, and in seminars and workshops in North America, Europe, and Asia.
Convergenomics is about the megatrends that are shaping how people behave and organizations work. In this insightful analysis, Sang Lee and David Olson describe how globalization, digitization, changing demographics, changing industry mix, deregulation and privatization, commoditization of processes, new

value chains, emerging new economies, deteriorating environment, and cultural conflicts have led to what they define as a convergence revolution. Lee and Olson discuss this convergence revolution from the perspectives of technology, industry, knowledge, open-source networking and bio-artificial convergence, and they explain how human systems are transformed by what they have named convergenomics. Understanding convergenomics can lead to innovative strategic approaches and, the authors contend, more agile businesses are already employing these approaches to become and remain competitive and to generate greater value in a world radically changed by e-commerce. Business leaders and 'students' of strategy at all levels will learn from this book how revolutionary developments can be embraced rather than feared, and how technology that is potentially frightening in its complexity can be harnessed and used to enable productive collaboration and gain competitive advantage.

In Masculinity and Dress in Roman Antiquity, Olson argues that clothing functioned as part of the process of communication by which elite male influence, masculinity, and sexuality were made known and acknowledged, and furthermore that these concepts interconnected in socially significant ways. This volume also sets out the details of masculine dress from literary and artistic evidence and the connection of clothing to rank, status, and ritual. This is the first monograph in

English to draw together the myriad evidence for male dress in the Roman world, and examine it as evidence for men's self-presentation, status, and social convention.

Educational sociologists have paid relatively little attention to children in middle childhood (ages 6 to 12), whereas developmental psychologists have emphasized factors internal to the child much more than the social contexts in explaining children's development. Children, Schools, and Inequality redresses that imbalance. It examines elementary school outcomes (e.g., test scores, grades, retention rates) in light of the socioeconomic variation in schools and neighborhoods, the organizational patterns across elementary schools, and the ways in which family structure intersects with children's school performance. Adding data from the Baltimore Beginning School Study to information culled from the fields of sociology, child development, and education, this book suggests why the gap between the school achievement of poor children and those who are better off has been so difficult to close. Doris Enwistle, Karl Alexander, and Linda Olson show why the first-grade transition?how children negotiate entry into full-time schooling?is a crucial period. They also show that events over that time have repercussions that echo throughout children's entire school careers. Currently the only study of this life transition to cover a

comprehensive sample and to suggest straightforward remedies for urban schools, Children, Schools, and Inequality can inform educators, practitioners, and policymakers, as well as researchers in the sociology of education and child development.

The author covers the development of the electronic musical instrument from Thaddeus Cahill's Telharmonium at the turn of the last century to the MIDI synthesizers of the 1990s. --book cover.

Explores music's scientific principles, the physiological properties of sound, how the ear perceives music, the effect of the acoustic environment, how instruments produce their sounds, and new computer applications in music

The Garland Handbook of Latin American Music is comprised of essays from The Garland Encyclopedia of World Music: Volume 2, South America, Mexico, Central America, and the Carribean, (1998). Revised and updated, the essays offer detailed, regional studies of the different musical cultures of Latin America and examine the ways in which music helps to define the identity of this particular area. Part One provides an in-depth introduction to the area of Latin America and describes the history, geography, demography, and cultural settings of the regions that comprise Latin America. It also explores the many ways to research Latin American music, including archaeology, iconography, mythology, history,

ethnography, and practice. Part Two focuses on issues and processes, such as history, politics, geography, and immigration, which are responsible for the similarities and the differences of each region's uniqueness and individuality. Part Three focuses on the different regions, countries, and cultures of Caribbean Latin America, Middle Latin America, and South America with selected regional case studies. The second edition has been expanded to cover Haiti, Panama, several more Amerindian musical cultures, and Afro-Peru. Questions for Critical Thinking at the end of each major section guide focus attention on what musical and cultural issues arise when one studies the music of Latin America -- issues that might not occur in the study of other musics of the world. Two audio compact discs offer musical examples of some of the music of Latin America.

After Discourse is an interdisciplinary response to the recent trend away from linguistic and textual approaches and towards things and their affects. The new millennium brought about serious changes to the intellectual landscape. Favoured approaches associated with the linguistic and the textual turn lost some of their currency, and were followed by a new curiosity and concern for things and their natures. Gathering contributions from archaeology, heritage studies, history, geography, literature and philosophy, After Discourse offers a range of reflections on what things are, how we become affected by them, and the ethical

concerns they give rise to. Through a varied constellation of case studies, it explores ways of dealing with matters which fall outside, become othered from, or simply cannot be grasped through perspectives derived solely from language and discourse. After Discourse provides challenging new perspectives for scholars and students interested in other-than-textual encounters between people and the objects with which we share the world.

Thoroughly revised, the seventh edition of this accessible and highly respected text provides a rigorous yet digestible introduction to the European Union. Additionally, it authoritatively explains developments that continue to bring challenges to this powerful institution in times of great political change. Key features: Clearly covers the history, governing institutions, and policies of the EU; Fully updated with new tables, figures, and photographs; In-text features such as Chapter Overviews, Questions to Consider, and Further Reading encourage deeper research and debate; Sustained discussion of transformative and historical change in the upheaval of Brexit and its ramifications, and the future relationship of the UK with the EU; Through reflection on destabilizing issues such as immigration and the years of refugee crisis in Europe, the continued crisis in the eurozone, tensions with Poland and Hungary, Euroskepticism, Russia, and the rise of populism; Increased coverage throughout of women or

minorities within the EU. Jonathan Olsen presents the EU as one of the world's economic and political superpowers, which has brought far-reaching changes to the lives of Europeans and has helped its member states to take a newly assertive role on the global stage. Essential reading for students of European and EU politics, this book offers an up-to-the-minute look at both the opportunities and existential threats facing the EU.

This undergraduate textbook aids readers in studying music and color, which involve nearly the entire gamut of the fundamental laws of classical as well as atomic physics. The objective bases for these two subjects are, respectively, sound and light. Their corresponding underlying physical principles overlap greatly: Both music and color are manifestations of wave phenomena. As a result, commonalities exist as to the production, transmission, and detection of sound and light. Whereas traditional introductory physics textbooks are styled so that the basic principles are introduced first and are then applied, this book is based on a motivational approach: It introduces a subject with a set of related phenomena, challenging readers by calling for a physical basis for what is observed. A novel topic in the first edition and this second edition is a non-mathematical study of electric and magnetic fields and how they provide the basis for the propagation of electromagnetic waves, of light in particular. The

book provides details for the calculation of color coordinates and luminosity from the spectral intensity of a beam of light as well as the relationship between these coordinates and the color coordinates of a color monitor. The second edition contains corrections to the first edition, the addition of more than ten new topics, new color figures, as well as more than forty new sample problems and end-of-chapter problems. The most notable additional topics are: the identification of two distinct spectral intensities and how they are related, beats in the sound from a Tibetan bell, AM and FM radio, the spectrogram, the short-time Fourier transform and its relation to the perception of a changing pitch, a detailed analysis of the transmittance of polarized light by a Polaroid sheet, brightness and luminosity, and the mysterious behavior of the photon. The Physics of Music and Color is written at a level suitable for college students without any scientific background, requiring only simple algebra and a passing familiarity with trigonometry. The numerous problems at the end of each chapter help the reader to fully grasp the subject.

This volume enacts a project we term 'a politics of form', working to politicise the formal analysis of narrative in novels, life narratives, documentaries, dramas, short prose works and multimodal texts while retaining the form specificity that is distinctive of narratology. The introduction offers an overview of how to perform

narrative analysis in conjunction with ideological critique, while the chapters unite the formal analysis of texts with readings that uncover how structures of social power are expressed in, as well as challenged by, aesthetic forms. The contributors address the need to develop sustained political analysis of aesthetic and narrative forms, and they articulate methods for performing such analysis while reflecting on the politics of the work they undertake. By establishing criteria to describe the politicised use of narrative forms, and by historicising narratological concepts, the volume bridges theoretical gaps between narratology, critical theory and cultural analysis, resulting in the refinement of existing narratological models. This book was originally published as a special issue of the European Journal of English Studies.

Principles of Musical Acoustics focuses on the basic principles in the science and technology of music. Musical examples and specific musical instruments demonstrate the principles. The book begins with a study of vibrations and waves, in that order. These topics constitute the basic physical properties of sound, one of two pillars supporting the science of musical acoustics. The second pillar is the human element, the physiological and psychological aspects of acoustical science. The perceptual topics include loudness, pitch, tone color, and localization of sound. With these two pillars in place, it is possible to go in a

variety of directions. The book treats in turn, the topics of room acoustics, audio both analog and digital, broadcasting, and speech. It ends with chapters on the traditional musical instruments, organized by family. The mathematical level of this book assumes that the reader is familiar with elementary algebra. Trigonometric functions, logarithms and powers also appear in the book, but computational techniques are included as these concepts are introduced, and there is further technical help in appendices.

Comprehensive and accessible, this foundational text surveys general principles of sound, musical scales, characteristics of instruments, mechanical and electronic recording devices, and many other topics. More than 300 illustrations plus questions, problems, and projects.

This extraordinarily comprehensive text, requiring no special background, discusses the nature of sound waves, musical instruments, musical notation, acoustic materials, elements of sound reproduction systems, and electronic music. Includes 376 figures.

An Introduction to Music Technology, Second Edition provides a clear overview of the essential elements of music technology for today's musician. This book focuses on the topics that underlie the hardware and software in use today: Sound, Audio, MIDI, Computer Notation, and Computer- Assisted Instruction.

Appendices cover necessary computer hardware and software concepts. Written for both music technology majors and non-majors, this textbook introduces fundamental principles and practices so students can learn to work with a wide range of software programs, adapt to new music technologies, and apply music technology in their performance, composition, teaching, and analysis. Features: Thorough explanations of key topics in music technology Content applicable to all software and hardware, not linked to just one piece of software or gear In-depth discussion of digital audio topics, such as sampling rates, resolutions, and file formats Explanations of standard audio plug-ins including dynamics processors, EQs, and delay based effects Coverage of synthesis and sampling in software instruments Pedagogical features, including: Further Reading sections that allow the student to delve deeper into topics of interest Suggested Activities that can be carried out with a variety of different programs Key Terms at the end of each chapter What Do I Need? Chapters covering the types of hardware and software needed in order to put together Audio and MIDI systems A companion website with links to audio examples that demonstrate various concepts, step-by-step tutorials, relevant hardware, software, and additional audio and video resources. The new edition has been fully updated to cover new technologies that have emerged since the first edition, including iOS and mobile platforms, online

notation software, alternate controllers, and Open Sound Control (OSC). Despite being widely recognized as John Wesley's key moment of Christian conversion, Aldersgate has continued to mystify regarding its exact meaning and significance to Wesley personally. This book brings clarity to the impact this event had on Wesley over the course of his lifetime by closely examining all of Wesley's writings pertaining to Aldersgate and framing them within the wider context of contemporary conversion narratives. The central aim of this study is to establish Wesley's interpretation of his Aldersgate experience as it developed from its initial impressions on the night of 24 May 1738 to its mature articulation in the 1770s. By paying close attention to the language of his diaries, letters, journals, sermons, tracts and other writings, fresh insights into Wesley's own perspective are revealed. When these insights are brought into wider context of other conversion narratives in the Christian milieu in which Wesley worked and wrote, this book demonstrates that this single event contributed in significant ways to the ethos of the Methodist movement, and many other denominations, even up to the present day. This is a unique study of the conversion of one of history's most influential Christian figures, and the impact that such narratives still have on us today. As such, it will be of great use to scholars of Methodism, theology, religious history and religious studies more generally.