



# Acoustical Society of America

<http://asa.aip.org>

## ***What we are:***

The Acoustical Society of America (ASA) is the world's premier society devoted to the science and technology of acoustics. ASA was organized in 1929, and now:

- has over 7,500 members worldwide
- publishes the world's leading journal on acoustics
- holds semi-annual week-long meetings advancing all fields of acoustics
- publishes ANSI and international standards
- keeps members informed on all aspects of acoustics

## ***Who we are and what we do:***

ASA membership includes men and women from over 70 countries: engineers, physicists, speech and hearing scientists, psychologists, biologists, and scientists in many other disciplines. ASA meetings feature exceptional congeniality and convenient access to the broad spectrum of acoustics. Whether it is the songs of humpback whales, advances in speech and hearing science, the design of concert halls or musical instruments, or medical applications of ultrasound, you will hear about it in the ASA. The ASA offers a variety of membership options including full Membership, Associate Membership, Corresponding Associate Membership, and Student Membership. All members receive a subscription to *The Journal of the Acoustical Society of America*. ASA offers students and recent graduates opportunities for fellowships, scholarships, and travel funds. (It provided travel support for over 100 students for Acoustics'08 Paris). Its Committee on Women in Acoustics and its Student Council promote activities for women and students within the Society.

## ***Benefits of membership:***

- *The Journal of the Acoustical Society of America (JASA)* (over 7,000 pages per year)
- *JASA Express Letters* (open access journal)
- *Acoustics Today* magazine (soon to be published online)
- *ECHOES* newsletter on current issues
- *Proceedings of Meetings on Acoustics* (online open access publication)
- Access to ASA's Digital Library, including *JASA* archives back to 1929
- Reduced meeting registration fees
- Hardcover and Online Books and CD ROM discounts (see next page)
- Free standards
- Job postings in acoustics
- Electronic announcements of important information on acoustics
- Recognition of outstanding acousticians through medals, awards, and prizes
- Promotion of acoustics to the general public
- Acoustics.org containing resources on acoustics for the general public
- Educational opportunities for young students

Details about membership and how to join can be found at <[http://asa.aip.org/map\\_membership.html](http://asa.aip.org/map_membership.html)>.

## ***Upcoming ASA meetings and ASA cosponsored symposia:***

### **2008**

- Aug. 19–22 - Acoustic Communication by Animals, Corvallis, Oregon
- Nov. 10–14 - 156<sup>th</sup> ASA meeting, Miami, Florida

### **2009**

- May 19-23 - 157<sup>th</sup> ASA meeting, Portland, Oregon
- May 23-24 - Second Language Speech Learning, Portland, Oregon
- Sep. 25-26 - Pacific Rim Underwater Acoustics Conference, Xian, China
- Oct. 26-30 - 158<sup>th</sup> ASA meeting, San Antonio, Texas

## ***ASA Books, CDs, and Videos:***

The ASA has published over 50 titles covering a wide variety of topics on acoustics. These include reprints of classic books, poster session collections, translations, and reprint collections in hard cover, online, and CD ROM formats. **Following are examples of the titles available from ASA.** The full catalog, with tables of contents and prefaces, can be found online at <<http://asa.aip.org/publications.html>>. Online books and acoustical standards can be purchased for immediate download from the ASA Store at <<http://asastore.aip.org/>> where you will find a complete listing of available publications.

### **Hardcover titles:**

*Acoustics* by Leo L. Beranek

*Acoustics—An Introduction to Its Physical Principles and Applications* by Allan D. Pierce

*Experiments in Hearing* by George von Békésy

*Handbook of Acoustical Measurements and Noise Control* edited by Cyril M. Harris

*Halls for Music Performance* edited by Ian Hoffman, Christopher Storch, and Timothy Foulkes

*Vibration of Plates and Vibration of Shells* by Arthur Leissa

### **Online titles:**

*Acoustics* by W. Donkin

*Thermoacoustics* by Gregory W. Swift

*Hearing in Vertebrates: A Psychophysical Handbook* edited by Richard R. Fay

### **CD titles:**

*Scientific Papers by Lord Rayleigh 1869–1919*

*Auditory Demonstrations*

### **Videos:**

*Measuring Speech Production* - demonstrations for teaching courses on speech acoustics, physiology, and instrumentation produced by Maureen Stone

*Speech Perception* produced by Patricia K. Kuhl

### **Standards:**

*American National Standards* developed by Accredited Standards Committees S1–Acoustics, S2–Mechanical Vibration and Shock, S3–Bioacoustics, and S12–Noise

*ISO Standards*

# ACOUSTICAL SOCIETY OF AMERICA PUBLICATIONS ON ACOUSTICS

see <<http://asa.aip.org/publications.html>> for Tables of Contents and Prefaces

**ACOUSTICAL DESIGN OF MUSIC EDUCATION FACILITIES**, Edward R. McCue and Richard H. Talaske, Eds. Plans, photographs, and descriptions of 50 facilities from around the world, with explanatory text and essays on the design process. 236 pp, paper 1990. Price: ASA members \$23; Nonmembers \$31. **Item # 0-88318-8104**

**ACOUSTICAL DESIGNING IN ARCHITECTURE**, Vern O. Knudsen and Cyril M. Harris. Comprehensive, non-mathematical treatment of architectural acoustics; covers general principles of acoustical designing. 408 pp, paper 1980 (originally published 1950). Price: ASA members \$23; Nonmembers \$31. **Item # 0-88318-267X**

**ACOUSTICAL MEASUREMENTS**, Leo L. Beranek. Classic text with more than half the pages and chapters revised or rewritten. 841 pp, hardcover 1989 (originally published 1948). Price: ASA members \$38; Nonmembers \$51. **Item # 0-88318-5903**

**ACOUSTICS**, Leo L. Beranek. Source of practical acoustical concepts and theory, with information on microphones, loudspeakers and speaker enclosures, and room acoustics. 491 pp, hardcover 1986 (originally published 1954). Price: ASA members \$28; Nonmembers \$38. **Item # 0-88318-494X**

**ACOUSTICS—AN INTRODUCTION TO ITS PHYSICAL PRINCIPLES AND APPLICATIONS**, Allan D. Pierce. Textbook introducing the physical principles and theoretical basis of acoustics, concentrating on concepts and points of view that have proven useful in applications such as noise control, underwater sound, architectural acoustics, audio engineering, nondestructive testing, remote sensing, and medical ultrasonics. Supplemented by problems answers. 678 pp, hardcover 1989 (originally published 1981). Price: ASA members \$33; Nonmembers \$44. **Item # 0-88318-6128**

**ACOUSTICS, ELASTICITY AND THERMODYNAMICS OF POROUS MEDIA: TWENTY-ONE PAPERS BY M. A. BIOT**, Ivan Tolstoy, Ed. Presents Biot's theory of porous media with applications to acoustic wave propagation, geophysics, seismology, soil mechanics, strength of porous materials, and viscoelasticity. 272 pp, hardcover 1991. Price: ASA members \$28; Nonmembers \$38. **Item # 1-56396-0141**

**ACOUSTICS OF AUDITORIUMS IN PUBLIC BUILDINGS**, Leonid I. Makrinenko, John S. Bradley, Ed. Presents developments resulting from studies of building physics. 172 pp, hardcover 1994 (originally published 1986). Price: ASA members \$38; Nonmembers \$51. **Item # 1-56396-3604**

**ACOUSTICS OF WORSHIP SPACES**, David Lubman and Ewart A. Wetherill, Eds. Drawings, photographs, and accompanying data of worship houses provide information on the acoustical design of chapels, churches, mosques, temples, and synagogues. 91 pp, paper 1985. Price: ASA members \$23; Nonmembers \$31. **Item # 0-88318-4664**

**ASA EDITION OF SPEECH AND HEARING IN COMMUNICATION**. Harvey Fletcher; Jont B. Allen, Ed. Summary of Harvey Fletcher's 33 years of acoustics work at Bell Labs. A new introduction, index, and complete bibliography of Fletcher's work are important additions to this classic volume. 487 pp, hardcover 1995 (originally published 1953). Price: ASA members \$40; Nonmembers \$54. **Item # 1-56396-3930**

**AEROACOUSTICS OF FLIGHT VEHICLES: THEORY AND PRACTICE**, Harvey H. Hubbard, Ed. Two-volumes oriented toward flight vehicles emphasizing the underlying concepts of noise generation, propagation, predicting and control. Vol. 1 589 pp/Vol. 2 426 pp, hardcover 1994 (originally published 1991). Price per 2-vol. set: ASA members \$58; Nonmembers \$77. **Item # 1-56396-404X**

**COLLECTED PAPERS ON ACOUSTICS**, Wallace Clement Sabine. Classic work on acoustics for architects and acousticians. 304 pp, hardcover 1993 (originally published 1921). Price: ASA members \$28; Nonmembers: \$38. **Item # 0-932146-600**

**CONCERT HALLS AND OPERA HOUSES** by Leo L. Beranek. Over 200 photographs and architectural drawings of 100 concert halls and opera houses in 31 countries with rank-ordering of 79 halls and houses according to acoustical quality. 653 pp, hardcover 2003. Price: ASA members: \$50; Nonmembers: \$69. **Item # 0-387-95524-0**

**CRYSTAL ACOUSTICS** by M. J. P. Musgrave. For physicists and engineers who study stress-wave propagation in anisotropic media and crystals. 406 pp, hardcover (originally published 1970). Price: ASA members: \$34; Nonmembers: \$45. **Item # 0-9744067-0-8**

**DEAF ARCHITECTS & BLIND ACOUSTICIANS?**, Robert E. Apfel. A primer for the student, the architect and the planner for incorporating the acoustical environment into an overall design plan. 105 pp, paper 1998. Price: ASA members: \$22; Nonmembers: \$30. **Item #0-9663331-0-1**

**THE EAR AS A COMMUNICATION RECEIVER**. Eberhard Zwicker and Richard Feldtkeller. Das Ohr Als Nachrichtenempfänger, the original title of this classic text, was published in 1967. This translation is aimed at communication engineers and sensory psychologists. Comprehensive coverage of the excitation pattern model and loudness calculation schemes. 297 pp, hardcover 1999. Price: ASA members \$50; Nonmembers \$70. **Item # 1-56396-881-9**

**ELECTROACOUSTICS: THE ANALYSIS OF TRANSDUCTION, AND ITS HISTORICAL BACKGROUND**, Frederick V. Hunt. Analysis of the conceptual development of electroacoustics including the origins of echo ranging, the crystal oscillator, the evolution of the dynamic loudspeaker, and electromechanical coupling. 260 pp, paper 1982 (originally published 1954). Price: ASA members \$23; Nonmembers \$31. **Item # 0-88318-401X**

**ELEMENTS OF ACOUSTICS**, Samuel Temkin. Treatment of acoustics as a branch of fluid mechanics. Main topics covered include propagation in uniform fluids at rest, transmission and reflection phenomena, attenuation and dispersion, and emission. 515 pp, hardcover 2001 (originally published 1981). Price: ASA members: \$30; Nonmembers: \$45. **Item #1-56396-997-1**

**EXPERIMENTS IN HEARING**, Georg von Békésy. A classic on hearing containing some of the vital roots of contemporary auditory knowledge. 760 pp, paper 1989 (originally published in 1960). Price: ASA members \$23; Nonmembers \$31. **Item # 0-88318-6306**

**HALLS FOR MUSIC PERFORMANCE: TWO DECADES OF EXPERIENCE, 1962–1982**, Richard H. Talaske, Ewart A. Wetherill, and William J. Cavanaugh, Eds. Drawings, photographs, and technical and physical data on 80 halls; examines standards of quality and technical capabilities of performing arts facilities. 192 pp, paper 1982. Price: ASA members \$23; Nonmembers \$31. **Item # 0-88318-4125**

**HALLS FOR MUSIC PERFORMANCE: ANOTHER TWO DECADES OF EXPERIENCE 1982–2002**. Ian Hoffman, Christopher Storch and Timothy Foulkes, Eds. Drawings, color photographs and technical and physical data on 142 halls. hardcover 2003. Price: ASA members: \$56; Nonmembers: \$75. **Item #0-9744067-2-4**

**HANDBOOK OF ACOUSTICAL MEASUREMENTS AND NOISE CONTROL, THIRD EDITION**, Cyril M. Harris. Comprehensive coverage of noise control and measuring instruments containing over 50 chapters written by top experts in the field. 1024 pp, hardcover 1998 (originally published in 1991). Price: ASA members \$56; Nonmembers \$75. **Item # 1-56396-774**

**HEARING: ITS PSYCHOLOGY AND PHYSIOLOGY**, Stanley Smith Stevens and Hallowell Davis. This volume leads readers from the fundamentals of the psychophysiology of hearing to a complete understanding of the anatomy and physiology of the ear. 512 pp, paper 1983 (originally published 1938). Price: ASA members \$23; Nonmembers \$31. **Item # 0-88318-4265**

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**NONLINEAR UNDERWATER ACOUSTICS**, B. K. Novikov, O. V. Rudenko, V. I. Timoshenko. Translated by Robert T. Beyer. Applies the basic theory of nonlinear acoustic propagation to directional sound sources and receivers, including design nomographs and construction details of parametric arrays. 272 pp, paper 1987. Price: ASA members \$34; Nonmembers \$44. **Item # 0-88318-5229**

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design and an extensive bibliography. 167 pp, paper 1987. Price: ASA members \$23; Nonmembers \$31. **Item # 0-88318-5164**

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