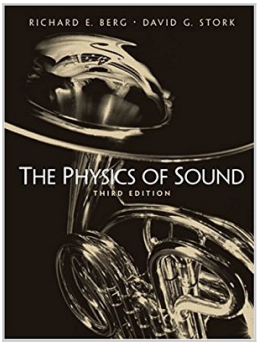

The Physics of Sound, 3rd Edition

By Richard E Berg, David G Stork

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This book incorporates the developments in digital audio technology, including consumer products, into a firm foundation of the physics of sound. No knowledge of physics, mathematics, or music is required. Includes updated information on musical synthesizers. Provides recent information on the ear, including new advances in cochlear implant technology. Updates material for modern technology, particularly MP3. Features abundant examples, including discussion of demonstration experiments. Includes historical discussion of musical temperaments and instruments. Offers videotapes of musical demonstrations on topics discussed in the book, available from author. A useful reference for musicians or anyone interested in learning more about the physics of music.

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Editorial Review

From the Publisher
This book incorporates the remarkable changes in digital audio technology -- including consumer products-- into a firm foundation of physics of sound.

From the Back Cover

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About the Author

Professor Richard E. Berg received his B.S. degree in music from Manchester College (Indiana), with emphasis on piano and clarinet, and M.S. and Ph.D. degrees in physics from Michigan State University. After completing his Ph.D. thesis in the area of cyclotron design, be began work on the construction of the cyclotron at the University of Maryland. This work included design and construction of the external beam transport system, design of solid state radiation detectors, and support for research in nuclear physics using the cyclotron. In 1972 he became the director of the University of Maryland Physics Lecture-Demonstration Facility, which has since developed one of the largest and most diverse collections of physics demonstrations in the world. He has initiated courses in *Physics of Music* laboratory, and an honors course, *Nuclear Physics and Society,* involving applications of nuclear physics and radiation to contemporary society. Professor Berg has sung and played renaissance wind instruments with University of Maryland Collegium Musicum for over 20 years. He has also played harpsichord and recorder in a smaller group known as the *Go for Baroque Ensemble.* Professor Berg has been active in physics outreach programs, annually presenting a series of public demonstration programs called *Physics is Phun,* which has been attended by more than 100,000 people since 1982. Over his career he has presented more than 500 traveling demonstration programs to area school groups and more than 300 smaller programs at the University of Maryland for visiting groups. In the photograph Professor Berg is shown demonstrating the twelve-harmonic variable frequency digital Fourier synthesizer designed and constructed at the University of Maryland.

David G. Stork is Chief Scientist of *Ricoh Innovations, Inc.*, and Consulting Professor of Electrical Engineering at Stanford University. He received his B.S. degree in physics from the Massachusetts Institute of Technology, and his M.S. and Ph.D. degrees in physics from the University of Maryland. Dr. Stork is an accomplished orchestral and chamber timpanist/percussionist, has performed in major concert halls throughout the United States, and performed on more than a dozen compact disks, including four world premier recordings. His principal research interests are in pattern classification, machine learning, and novel uses of the internet. He is an award-winning teacher (*Ralph D. Myers Teaching Award,* University of Maryland) and publishes and lectures widely on his research and scholarly topics as diverse as Renaissance

painting and the relation of science fiction to science fact. His other books include *Pattern Classification* (2nd ed., Wiley 2000, W R. Duda and P Hart), *Speechreading by Humans and Machines* (Springer, 1996, W M. Hennecke), *Seeing the Light* (Whey, 1986, W D. Falk and D. Brill), and *HAL's Legacy: 2001's Computer as Dream and Reality* (MIT 1997), the latter serving as the source for his PBS television documentary "2001: HAL's Legacy." Dr. Stork sits on the editorial boards of four international journals and is a member of IEEE (Institute of Electrical and Electronics Engineers), ACM (Association for Computing Machinery), OSA (Optical Society of America), INNS (International Neural Network Society), and the Sigma XI Honorary Research Society.

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