

Sonic Application Paper

Designed to provide highway engineers with a basic knowledge of geophysics and nondestructive (NDT) methods for solving specific transportation related problems.

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

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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 In Moravian communities, cultures of hearing and listening encompassed and also superseded musical traditions such as song and hymnody.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 anthroponic acoustic environments—or soundscapes—characterized daily life in Moravian

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settlements such as Bethlehem, Nain, Gnadenhütten, and Friedenshütten. 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

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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.

OAR Cumulative Index of
Research Results

Aeronautical Engineering: A
Cumulative Index to a
Continuing Bibliography
(supplement 300)

Sonic Writing

Monthly Catalog of United

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States Government Publications Principles and Practices of DART-MS

Modern structural engineering surprises us with the mastery and certainty with which it plans and carries out daring projects, such as the most recent metal or concrete bridges, whether they be suspension or arch bridges. On the other hand, little is yet known about the state of knowledge of construction science and techniques which, well before the arrival of modern methods based on the mechanics of deformable continua, made it possible in the past to erect the vaulted masonry structures that we have inherited. The fact that these have lasted through many centuries to our time, and are still in a fairly good state of conservation, makes them competitive, as

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far as stability and durability are concerned, with those constructed in other materials. Although it is known that the equilibrium of the arch is guaranteed by any funicular whatsoever of the loads, contained inside the profile of an arch, finding the unique solution is not such a certainty. In other words, the problem of the equilibrium of vaulted structures is 'Poleni's problem', the one for which the Venetian scientist was able to give an exemplary solution on the occasion of the assessment of the dome of St. Peter's. Arch Bridges focuses on the main aspects of the debate about the masonry arch bridge: History of structural mechanics and construction, theoretical models, analysis for assessment, numerical methods, experimental and non-destructive testing, maintenance and repair are the topics of the Conference. The breadth and variety

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of the contributions presented and discussed by leading experts from many countries make this volume an authoritative source of up-to-date information.

Formation Evaluation with Pre-Digital Well Logs covers the practical use of legacy materials for formation evaluation using wireline logging equipment from 1927 until the introduction of digital logging in the 1960s and '70s. The book provides powerful interpretation techniques that can be applied today when an analyst is faced with a drawer full of old "E logs." It arms the engineer, geologist and petrophysicist with the tools needed to profitably plan re-completions or in-fill drilling in old fields that may have been acquired for modern deeper and/or horizontal drilling. Includes more than 150 figures, log examples, charts and graphs Provides work exercises for

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the reader to practice log analysis and formation evaluation Presents an important source for academia, oil and gas professionals, service company personnel and the banking and asset evaluation teams at consultancies involved in reserve and other property evaluation

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Sonic Techniques to

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Submarine Geological
Investigations Fossil
Energy Update Scientific
and Technical Aerospace
Reports Springer Handbook
of Experimental Fluid
Mechanics Springer
Science & Business Media
This book is a self-
contained text for those
students and readers
interested in learning
hypersonic flow and high-
temperature gas
dynamics. It assumes no
prior familiarity with
either subject on the
part of the reader. If
you have never studied

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hypersonic and/or high-temperature gas dynamics before, and if you have never worked extensively in the area, then this book is for you. On the other hand, if you have worked and/or are working in these areas, and you want a cohesive presentation of the fundamentals, a development of important theory and techniques, a discussion of the salient results with emphasis on the physical aspects, and a presentation of modern

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thinking in these areas,
then this book is also
for you. In other words,
this book is designed
for two roles: 1) as an
effective classroom text
that can be used with
ease by the instructor,
and understood with ease
by the student; and 2)
as a viable,
professional working
tool for engineers,
scientists, and managers
who have any contact in
their jobs with
hypersonic and/or high-
temperature flow.

Aeronautical Engineering

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Guide to Annual Subject
Index for Technical
Publications
Announcements, Apr.-Dec.
1962
93-2901 - 93-2929
Technical Publications
Announcements with
Indexes
Selected Papers on
Advanced Design of Air
Vehicles

The papermaking industry uses an abundance of chemicals to control the process of papermaking. These chemicals are used to control everything from paper strength to brightness. Due to the natural variability of products used in

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papermaking, the chemistry of the process is heavily monitored. Cationic (charge) demand is one of the most important parameters in process control of papermaking. High variations in cationic demand result in off-spec final product or paper breaks resulting in wasted production and downtime. Both of these results are costly for papermakers due to high energy consumption and loss of revenue. Currently, cationic demand is measured off-line in a laboratory setting with a heavily diluted specimen taking up to hours for results. The industry need is for an on-line, real-time measurement of cationic demand at higher consistencies to provide control

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feedback for the addition of cationic demand at higher consistencies to provide control feedback for the addition of cationic polymers for finely-tuned control of the paper process. Electrokinetic sonic amplitude (ESA) is a method for measuring particle charge and size, which has been employed in the semiconductor industry for several years. While this technology is generally geared for smaller particles (micron size) instead of paper fibers (millimeter size), this project researched the idea of using ESA to measure cationic demand in a real-time setting at high pulp consistencies. Within the scope and schedule of this project, the feasibility of the ESA

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technology for use in an on-line instrument was inconclusive. Further engineering is required to generate a sufficient ESA signal from the paper pulp to obtain reliable and consistent measurements. Future research in this area will help to further tailor the technology for application to paper streams. The ESA technology continues to remain a viable option for on-line charge demand measurements in the papermaking process and future research should continue in this area to address technical and mechanical issues associated with its implementation. Includes the Committee's Reports no. 1-1058, reprinted in v. 1-37. Technical Association of the Pulp and

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Paper Industry

Evaluation and Development of a
Prototype Electrokinetic Sonic
Amplitude (ESA) System for On-Line
Measurement of Charge in
Papermaking Process Streams
Proceedings

A Collection of Technical Papers
Scientific and Technical Aerospace
Reports

Accompanying DVD-ROM
contains ... "all chapters
of the Springer
Handbook."--Page 3 of cover.
February issue includes
Appendix entitled Directory
of United States Government
periodicals and subscription
publications; September
issue includes List of

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depository libraries; June
and December issues include
semiannual index
Springer Handbook of
Experimental Fluid Mechanics

Energy Research Abstracts
Aeronautical Engineering: A
Cumulative Index to a
Continuing Bibliography
(supplement 274)

AAIA 9th Aerodynamic Testing
Conference, Arlington,
Texas, June 7-9, 1976

Sonic Writing explores how
contemporary music technologies
trace their ancestry to previous
forms of instruments and media.
Studying the domains of instrument
design, musical notation, and sound
recording under the rubrics of

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material, symbolic, and signal inscriptions of sound, the book describes how these historical techniques of sonic writing are implemented in new digital music technologies. With a scope ranging from ancient Greek music theory, medieval notation, early modern scientific instrumentation to contemporary multimedia and artificial intelligence, it provides a theoretical grounding for further study and development of technologies of musical expression. The book draws a bespoke affinity and similarity between current musical practices and those from before the advent of notation and recording, stressing the importance

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of instrument design in the study of new music and projecting how new computational technologies, including machine learning, will transform our musical practices. Sonic Writing offers a richly illustrated study of contemporary musical media, where interactivity, artificial intelligence, and networked devices disclose new possibilities for musical expression. Thor Magnusson provides a conceptual framework for the creation and analysis of this new musical work, arguing that contemporary sonic writing becomes a new form of material and symbolic design--one that is bound to be ephemeral, a system of fluid objects where

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technologies are continually redesigned in a fast cycle of innovation.

Clear, comprehensive, and state of the art, the groundbreaking book on the emerging technology of direct analysis in real time mass spectrometry Written by a noted expert in the field, *Direct Analysis in Real Time Mass Spectrometry* offers a review of the background and the most recent developments in DART-MS. Invented in 2005, DART-MS offers a wide range of applications for solving numerous analytical problems in various environments, including food science, forensics, and clinical analysis. The text presents an

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introduction to the history of the technology and includes information on the theoretical background, for example on the ionization mechanism. Chapters on sampling and coupling to different types of mass spectrometers are followed by a comprehensive discussion of a broad range of applications. Unlike most other ionization methods, DART does not require laborious sample preparation, as ionization takes place directly on the sample surface. This makes the technique especially attractive for applications in forensics and food science. Comprehensive in scope, this vital text: -Sets the standard on an important and emerging ionization

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technique -Thoroughly discusses all the relevant aspects from instrumentation to applications -Helps in solving numerous analytical problems in various applications, for example food science, forensics, environmental and clinical analysis -Covers mechanisms, coupling to mass spectrometers, and includes information on challenges and disadvantages of the technique Academics, analytical chemists, pharmaceutical chemists, clinical chemists, forensic scientists, and others will find this illuminating text a must-have resource for understanding the most recent developments in the field.

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Annual Report of the National
Advisory Committee for
Aeronautics

Use of Geophysics for
Transportation Projects

Report - National Advisory
Committee for Aeronautics

Formation Evaluation with Pre-
Digital Well Logs

Federal Information Processing
Standards Publication

A selection of annotated references
to unclassified reports and journal
articles that were introduced into
the NASA scientific and technical
information system and announced
in Scientific and technical
aerospace reports (STAR) and
International aerospace abstracts

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(IAA)

Hypersonic and High Temperature
Gas Dynamics

International Aerospace Abstracts

Application of Geophysical Methods
to Highway Related Problems

Aircraft Noise and Sonic Boom

Fossil Energy Update