

NoiseCon08 Papers

Listed by INCE Primary Subject Classification

00 GENERAL

08 Noise Programs

[NC08_050](#) *Possible Average Noise Exposure Assessment Compliance Strategy for Mining*
Jeremy Slagley, David A. Smith and Steven E. Guffey
(08.5, 82)

[NC08_069](#) *Test Methods for Viscoelastic Material and Their Nonlinear Properties*
Kastriot Shaska
(08.5, 01.1)

10 EMISSION: NOISE SOURCES

11 Noise-generating devices

[NC08_035](#) *Stand-By Noise Reduction Using Passive Control Methods in a Printing System*
Hyung-won Yoon, Hyun-ki Cho and Jong-woo Kim
(11, 11.4.1)

[NC08_067](#) *An Approach of Nonlinear Characterization and Simulation of Compressor Shaft*
Kastriot Shaska
(11.1.1, 12.4.2.1.1)

[NC08_156](#) *The Effects of Wear Estimates and Inspection Practices on the Prediction of Planetary Gear Whine*
Ken Nowaczyk, Jamie Pears, Theo Potter and Brian K. Wilson
(11.1.3, 13.2.1)

[NC08_046](#) *Identification and Assessment of Piping Noise*
Michael Lucas
(11.3.3, 21.6)

[NC08_179](#) *Acoustical Implications of Airflow Impedance on Both the Inlet and Outlet of an Air Moving Device*
Seth Bard and Matthew Nobile
(11.4, 72.4)

- [NC08 023](#) *Evaluation of Modal Testing Use as Means of Controlling Brake Rotors Quality*
Mohamed K. Abdelhamid and Tim Kraus
(11.4.1, 12.3)
- [NC08 085](#) *Use of Dipole Resonator Configurations for Bi-Directional Attenuation of Plane Wave Blade Tone Noise*
Lee Gorny, Gary Koopmann and Dean Capone
(11.4.1, 34)
- [NC08 100](#) *Flow Rate and Acoustic Modeling of Axial Cooling Fan*
Jessica Gullbrand and Willern Beltman
(11.4.1, 21.6)
- [NC08 022](#) *Outlet Interaction Effects in Small, Dual Outlet Blowers*
Mark MacDonald and Eric Baugh
(11.4.2, 12.3.4.1)
- [NC08 174](#) *Screw Compressor Noise Challenges in Bus A/C Systems*
Steve Gleason, Lars Sjöholm and YoungChan Ma
(11.6.2, 13.2.3)
- [NC08 167](#) *Noise Reduction and Sound Quality Improvement with Acoustic Windshield in Diesel-Powered Vehicles*
Jun Lu
(11.6.4.1, 13.2.1)
- [NC08 171](#) *Characterization and Active Reduction of Operating Noise of a Diesel Generator*
Cory Papenfuss, Tom-Davy Saux, Chris Fuller and Marcel E. Remillieux
(11.6.4.1, 38.2)
- [NC08 060](#) *Trend of Pavement On Board Sound Intensity with Respect to Texture Degradation Patterns in MNroad Test Cells*
Lev Khazanovich and Bernard I. Izevbekhai
(11.7.1, 35.5.5)
- [NC08 095](#) *Applicability of On-Board Sound Intensity (OBSI) Method to Quantifying the Effect of Pavement Type on Tire-Pavement Noise*
Paul Doanvan and Dana Lodico
(11.7.1, 13.2)
- [NC08 096](#) *Determination of the Vertical Distribution of Noise Sources in Truck Passbys Using Acoustic Beam-Forming*
Paul Donovan, Tarek Dib, William Blake and Bruce Rymer
(11.7.1, 13.2.4)

[NC08 124](#) *NITE II: Noise Intensity Testing in Europe, the Sequel*
Robert Rasmussen, Robert Whirledge, Robert Light, Ted R. Ferragut and Paul Wiegand
(11.7.1, 72.3)

[NC08 164](#) *Acoustical Performance of Open-Cell Foam in Longitudinal Grooves on Concrete Roadways*
Tyler Dare, Tanya Wulf and Robert Bernhard
(11.7.1, 35.5.5)

[NC08 029](#) *Noiseless and Safer Back-up Alarms*
Henry Morgan and Richard Peppin
(11.9.9, 52.6)

12 Stationary noise sources

[NC08 107](#) *Case study: Mitigation of Excessive Vibration Induced by Commercial Washers on Post-Tensioned Concrete Slab*
Andrew Kowalyshyn and Jeffrey Kwolkoski
(12.1, 43.2)

[NC08 111](#) *Demonstration of Tricks and Tools for Solving Self-Excited Combustion Oscillation Problems*
Peter Baade and Michael Tomarchio
(12.1.6, 38.5)

[NC08 088](#) *A Comparison of Tonality Metrics for Product Noise Evaluation*
David Nelson
(12.3, 63.7)

[NC08 144](#) *Acceptability of PC Noise in Open Offices*
Robert Hellweg
(12.3, 69)

[NC08 181](#) *Standardized Acoustic Testing: ECMA 74 New Operating Modes of Computing Equipments*
Kalee Xiuting Man
(12.3, 81)

[NC08 147](#) *Sound Generated by Monochrome and Color Printing in Desktop Devices*
Charles Oppenheimer and Ron Craig
(12.3.1.1, 81)

[NC08 042](#) *Psychoacoustical Characteristics of Air-Conditioning Sounds*
Jin Yong Jeon, Jin You and Choong Il Jeong
(12.4, 63.2)

[NC08 015](#) *An Estimate of the Sound Power Measurement Error due to Sound Source Directivity for Powered Hand Tools*
Edward L. Zechmann, William J. Murphy and Charles S. Hayden
(12.5.1, 75)

13 Moving noise sources

[NC08 110](#) *Boston Logan Airport Noise Study (BLANS) - A Case Study in the Effective Use of Supplemental Metrics*
Clint Morrow and Tom Connor
(13.1, 68.5)

[NC08 119](#) *Functional Comparison of the FAA's Aircraft Acoustic Module and Integrated Noise Model*
Eric Boeker and Gregg Fleming
(13.1, 24)

[NC08 076](#) *Design of an Indoor Sonic Boom Simulator at NASA Langley Research Center*
Jacob Klos, Brenda Sullivan and Kevin Shepherd
(13.1.1, 41.3)

[NC08 074](#) *Practical Comparison of ISO-3744 and ISO-3745 Sound Power Standards for Automotive Compressor Testing*
Glenn Pietila, Gabriella Cerrato-Jay and Keith Davis
(13.1.2, 87)

[NC08 009](#) *Development and Experimental Validation of a Baffled BEM Model for Transmission Loss Prediction*
Reza Madjlesi
(13.1.6, 75.5)

[NC08 089](#) *Absorption Coefficients of Open-Weave Foam-Filled Honeycomb Sandwich Structures*
Portia Peters, Steven Nutt and Matthew Sneddon
(13.1.6, 35)

[NC08 129](#) *Interior Noise Prediction of Aircraft Section Using Hybrid FEM/SEA Methods*
Alexander Peiffer and Stephan Tewes
(13.1.6, 75.2)

- [NC08 159](#) *Modeling and Analysis of Trim Panel Isolators for Interior Noise Prediction in a Full Aircraft Model*
Indranil Dandaroy, Mohammed Taj Bhuiyan and Roland Woodcock
(13.1.6, 46)
- [NC08 162](#) *Modeling and Analysis of Carpet Lay-ups at Component and System-Levels for Aircraft Interior Noise Prevention*
Roland Woodcock, Wenlung Liu, Sanjay Sharma, Indranil Dandaroy and Mohammed Taj Bhuiyan
(13.1.6, 70)
- [NC08 165](#) *Transmission Loss as a Result of Impedance Mismatch of Foams in a Normal Incidence Sound Field*
Christina Naify, Matthew Sneddon and Steven Nutt
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- [NC08 017](#) *Investigation of Transducers for the Measurement of Airbag Deployment Noise*
Ivanna Malinow
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- [NC08 018](#) *Airbag Deployment Sound and Bag Expanding Speed*
Kwen Hsu and Ivanna Malinow
(13.2.1, 11)
- [NC08 031](#) *Air-Conditioning Induced Slugging and its Control*
Prakash Thawani, Zhengyu Liu, Pete Halliday and Stephan Stephan
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- [NC08 052](#) *The Influence of Body Cavity Acoustic Modes on Booming Noise During Acceleration*
Farokh Kavarana, Brian Shaw and Todd Schiller
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- [NC08 078](#) *Noise Reduction with Fiber Products in a Mid-size Luxury Vehicle*
Barry Wyerman
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- [NC08 098](#) *Vehicle Vibrations due to Road Surface Roughness in Urban Areas*
Stjepan Lakusic, Marijan Bogut and Miroslav Simun
(13.2.1, 49)
- [NC08 121](#) *Signal Analysis Techniques to Identify Axle Build Errors*
Todd Freeman, Paul Goodes and Gino Catenacci
(13.2.1, 74.8)

- [NC08 184](#) *Test Based Body Panel Contribution Analysis and Structural Modifications in Mid-Size SUV*
Jaehak Woo and Patrick Davis
(13.2.1, 75.5)
- [NC08 185](#) *Structure-borne Noise Prediction in a Trimmed Automotive Vehicle*
Arnaud Charpentier, Prasanth Sreedhar, Bryce Gardner and Kazuki Fukui
(13.2.1, 75)
- [NC08 191](#) *A Comparison of Characterization Methods for Automotive Steering Pump Vehicle Airborne Noise Paths*
Gabriella Cerrato-Jay, Eric Frank, Mark Clapper, Frank Clapper and Christian Fernholz
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- [NC08 196](#) *Control of Noise Radiated from a Partial Zero Emission Vehicle Manifold*
Taner Onsay and Michael Sanderson
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- [NC08 202](#) *Air Induction NVH Development Standardization*
Antoni Szatkowski, Jeffrey Orzechowski, Russ Ruhnnow and Wade Bray
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- [NC08 203](#) *Input of the Engine Accessory Drive System on V6 Engine Sound Quality*
Antoni Szatkowski, Michael Patyi and Wade Bray
(13.2.1, 63.7)
- [NC08 205](#) *Power Steering Pump Noise Analysis*
Antoni Szatkowski, Lacramioara Romagnoli and Wade Bray
(13.2.1, 63.7)
- [NC08 106](#) *Study on Using Noise for Development of Active Steering Control System of Rail Vehicles*
Maksym Spiryagin, Kwan Soo Lee, Hong Hee Yoo, Valentyn Spiryagin and Serhey Klyuyev
(13.4.1, 11.7.2)

14 Specialized industrial machinery and equipment

- [NC08 011](#) *Accurately Measuring Capacity using Acoustics: Examples including an IC Engine*
Richard J. Peppin and Nao Abiko
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[NC08 094](#) *Audible Warning Devices Used in the Mining Industry*
John Homer
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[NC08 102](#) *Continuous Mining Machine Conveyor System Sound Power Levels*
Adam K. Smith, J. Shawn Peterson and Peter G. Kovalchik
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[NC08 206](#) *Passive Noise and Dust Control for Coal Mine Longwall Shearer*
Daniel Sweeney and Jeremy Slagley
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[NC08 208](#) *A Noise Control for a Roof Bolting Machine: Collapsible Drill Steel Enclosure*
Rudy J. Matetic, Peter G. Kovalchik, J. Shawn Peterson and Lynn A. Alcorn
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20 PHYSICAL PHENOMENA

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[NC08 204](#) *Frequencies of a Two Span Shaft System Joined with a Hinge Using Exact Solutions*
Javed Iqbal, Mohamad S. Qatu and Yin-Ping Chang
(21.2.1, 41)

[NC08 140](#) *A Preliminary Investigation of Near-Field Acoustical Holography in Characterizing Noise from Military Jet Aircraft*
Kent L. Gee, Sally Anne McNerny, Michael James and J. Micah Downing
(21.6.1, 75.7)

23 Propagation, transmission & scattering of sound

[NC08 019](#) *Noise Transmission Loss of Orthotropic Sandwich Composite Panels*
Sebastian Ghinet and Nouredine Atalla
(23.9, 13.1.6)

24 Sound propagation in the atmosphere

[NC08 065](#) *Sonic Boom Diffraction around Buildings Using a Finite Difference Time Domain Approach*
Sang Cho and Victor Sparrow
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30 NOISE CONTROL ELEMENTS

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David Copley and Nickolay Ivanov
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NC08 193 *Effect of Glass and Interlayer Thickness and Type to Create Acoustical Comfort in Architectural Settings*
Julia Schimmelpenningh
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33 Sound isolating elements

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Kamal Idrisi, Marty Johnson and Alessandro Toso
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NC08 176 *Sensitivity of Heterogeneous Blanket Design to Parameter Variation*
Kamal Idrisi, David Bartylla, Marty Johnson and Andreas Wagner
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34 Filters, mufflers, silencers and resonators

NC08 006 *Predicting insertion loss of large duct systems utilizing the diffuse reciprocity relationship*
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NC08 034 *Wet/Dry Vacuum Noise Reduction*
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NC08 054 *Prediction of Fuel Savings from Muffler Using Sintered Fibrous Metal as Exhaust Gas Liner*
Mark Storm
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NC08 207 *Dimensional Tolerance Effects on the Static Pressure Loss of Passive Dissipative Rectangular Duct Silencers*
Emily Cross and Greg Tocci
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[NC08 131](#) *Acoustic Noise Synthesis of Muffler Systems*
Kitu Kumar, B. Rajavel and Marehalli G. Prasad
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[NC08 153](#) *Influence of Source-Muffler Interaction on Insertion Loss*
B Rajavel, Kitu Kumar and M G Prasad
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[NC08 154](#) *Effect of Flow on the Acoustic Attenuation Characteristics of Helmholtz Resonators*
Asim Iqbal and Ahmet Selamet
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35 Absorptive materials

[NC08 158](#) *Absorption of Finite-Sized Micro-Perforated Panels with Finite Flexural Stiffness at Normal Incidence*
Taewook Yoo, J. Stuart Bolton, David F. Slama and Jonathan H. Alexander
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[NC08 079](#) *New Frontiers for Fiber Based NVH Solutions*
Barry Wyerman
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[NC08 118](#) *Measurement of Pavement Absorption of Pass-by Tracks based on ISO/DIS 13472-2*
A.F. Seybert and Ferdy Martinus
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36 Hearing protective devices

[NC08 004](#) *Sound Restoration Hearing Protection: Genesis of a Standard Test Method*
Amanda Azman
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[NC08 101](#) *A Longitudinal Statistical Review of a Dozen Laboratory Tests on an Instantly Custom-Fitted Earplug*
Jeremie Voix and Jean Zeidan
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[NC08 126](#) *The Effects of an Insertion Lubricant on the Noise Attenuation of Foam Earplugs*
Robert Randolph
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[NC08 114](#) *Simulated Study of Active Acoustic Noise Control of a Magnetic Resonance Imaging Scanner Response*
Mingfeng Li, Brent Rudd, Teik Lim and Jing-Huei Lee
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[NC08 117](#) *Evaluation of MRI Compatible Headphones for Active Noise Cancellation*
Brent Rudd, Teik Lim and Jing-Huei Lee
(36.4, 71.1)

37 Noise attenuation and transmission in ducts

[NC08 056](#) *Design Sensitivity Analysis on Low-Frequency Noise Radiation of Air Supply Ducts*
Pascale Neple, Remy Foret and Alexandra Ramonda
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[NC08 020](#) *Improving the Attenuation of Micro-Perforated Panels by Partitioning the Connecting Air Space*
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[NC08 039](#) *A Kalman Filter Approach to Active Duct Noise Control Using TMS320C6713*
Jinsiang Shaw, C.L. Huang and S. Y. Lu
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38 Special treatments

[NC08 113](#) *An Active Noise Quality Control System for Tuning Vehicle Interior Response*
Mingfeng Li, Eric J. Sorosiak, Teik Lim, Jie Duan, Takeshi Abe, Ming-Ran Lee, Ming-Te Cheng and Wayne Vanhaaften
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[NC08 141](#) *Practical Strategies for Multichannel Global Active Noise Control of Laptop Fan Noise*
Felipe Orduna Bustamante, Hector Alfonso Cordourier Maruri, Rafael de la Guardia Gonzalez and Jose A. Cordova Magana
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[NC08 177](#) *Global Active Control of Axial Cooling Fan Noise: An Overview of Past and Present Research*
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NC08 086 *An Accurate Series Solution for the Transverse Vibration of Orthotropic Plates with General Elastic Boundary Conditions*
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43 Propagation in structures

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- NC08 084** *Acoustic Characterization of Courtrooms by a Multi-Criteria Method*
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- NC08 188** *Some Limitations of Ray-Tracing Software for Predicting Community from Industrial Facilities*
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- NC08 125** *Transmission of a Shock Wave into a Room with a Window using a Modal-Interaction Model*
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- NC08 104** *Noise Level Reduction Measurement Methods for Sound-Insulated Structures*
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- NC08 041** *Psychoacoustical Characteristics of Heavy-Weight Impact Sounds in Concrete Floors*
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[NC08 148](#) *Noise and Vibration Control for a Residential Geothermal Heat Pump Installation*
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[NC08 062](#) *Addressing Airport Community Noise Impacts: FFA's Current Efforts and Future Plans*
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[NC08 130](#) *Community Noise Measurements Around Boston's Logan Airport*
Nancy Timmerman
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[NC08 090](#) *An Examination of Differences in Traffic Noise Analyses between China and the USA: Part I*
Weixiong Wu, Jia Hai Luo, Jin Hong Zhang and Yi Chen
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[NC08 127](#) *Operational Noise Impact Assessment for the Sunset Park Material Recycling Facility in Brooklyn, NY*
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[NC08 036](#) *Prediction Sports Car Noise Propagation from a Private Racetrack Noise Using Mobile Point Source Modeling Technique*
Mark C. Storm, Tyrone Hunter and Brad Poppell
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[NC08 160](#) *Simple Guidelines for Siting Wind Turbines to Prevent Health Risks*
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- NC08 051** *The Health Belief Model and Hearing Loss Prevention Education*
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- NC08 209** *Measurement of Noise Exposure from Headsets*
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- NC08 122** *Design of a Quiet Space with an Acoustic Canopy within a Large Reverberant Room*
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Jinghao Liu and D. W. Herrin
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[NC08 075](#) *Vibroacoustic Response of Residential Housing due to Sonic Boom Exposure: Summary of Two Field Tests*
Jacob Klos, Ralph Buehrle, Brenda Sullivan, Edward Haering Jr, Joseph Gavin, Joseph Salamone and Denise Miller
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David Yantek, Hugo Camargo and Rudy Matetic
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Scott Relly, Jason Zhu, Timothy Roggenkamp, Manmohan Moondra and Sean Wu
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[NC08_048](#) *A Novel TPA Method for Test-based NVH Troubleshooting*
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[NC08_128](#) *Visualization of Sound Sources in Real Time: Microphone Array Processing beyond the State of the Art*
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75 Analytical methods

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Kenneth Kaliski, Kevin Hathaway and Thomas Adler
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Randolph Cabell, Jake Klos, Ralph Buehrle and Noah Schiller
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