



Amos Nur

Wayne Loel Professor of Earth Sciences, Emeritus
Geophysics

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Geophysics

ADMINISTRATIVE APPOINTMENTS

- Research Associate in Geophysics, Massachusetts Institute of Technology, (1969-1970)
- Assistant Professor of Geophysics, Stanford University, (1970-1974)
- Associate Professor of Geophysics, Stanford University, (1974-1979)
- Visiting Professor, Weizmann Institute of Science, Rehovot, Israel, (1974-1977)
- Professor of Geophysics, Stanford University, (1979-2008)
- Academic Director, Overseas Studies Program, Stanford University, (2000-2005)
- Burke Family Director, Overseas Studies Program, Stanford University, (2002-2005)
- Professor Emeritus of Geophysics, Stanford University, (2008- present)

HONORS AND AWARDS

- Research Fellow, A. P. Sloan Foundation (1972-1974)
- Mellon Fellowship, Stanford (1974-1975)
- J.B. Macelwane Award, American Geophysical Union (1974)
- Newcomb Cleveland Prize, American Association for the Advancement of Science (1975)
- Fellow, American Geophysical Union (1976)
- University Fellow, Stanford (1980-1982)
- Fellow, Geological Society of America (1980)
- Fellow, Sackler Institute, Tel Aviv University (1985-1987)
- Bicentennial Fellow, Universidad de los Andes, Merida, Venezuela (1988)
- D.B. Harris Distinguished Lecturer, Texas A&M (1989)
- Fellow, California Academy of Sciences (1990)
- Silver Apple Award, National Educational Film & Video Festival (1991)
- Honorary Member, Society of Exploration Geophysicists (1996)
- Distinguished Lecturer, Society of Exploration Geophysicists (1997)
- Distinguished Lecturer, American Association of Petroleum Geologists (1998)

- Dobrin Distinguished Lecturer, University of Houston (1999)
- School of Earth Sciences Teaching Award, Stanford University (1999)
- Elected member, National Academy of Engineering (2001)
- Chancellors Distinguished Lecturer, Louisiana State University (2004)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Director, Stanford Rock Physics and Borehole Geophysics Project (1977 - present)
- Chair, Department of Geophysics (1985 - 1991)
- Member, Senior Advisory Board, INTEVEP, Caracas, Venezuela (1989 - present)
- Advisory Board, Bolivar House (1995 - 1998)
- Member, Earth Sciences Council (1995 - present)
- Speaker, Stanford Parents Weekend (1996 - present)
- Chair, Department of Geophysics (1997 - 2000)
- Member, Search Committee for University Provost (1999 - 1999)
- Invited Speaker, MIT, Lamont, Caltech, Virginia Tech, Duke, U. Calgary, Rice, Ohio State U., Michigan State U., U. of Miami, U. Texas at Dallas, Colorado School of Mines, U. of Colorado at Boulder, U.C. Berkeley, U. of Nebraska at Lincoln, Hebrew U. (1999 - 1999)
- Member, ODP Review Panel (1999 - 1999)
- Invited Speaker, Caltech, U. of Houston, U.C. Berkeley, annual meeting of American Assoc. Oriental Research, Orlando, FL; Poroelasticity Conference, Puerto Vallarta, Mexico; International Gas Hydrates Conf. Tokyo, Japan (2000 - 2000)
- Invited Speaker, Schlumberger Research Center, Ridgefield, USA; UK; Meeting of European Assocn. of Geophysics and Engineers, Paris, France; American Inst. of Archaeology; Annual Meeting of Seismology Soc. of America, San Diego (2000 - 2000)
- Invited Speaker, USGS Menlo Park; UC Berkeley; UC San Diego (2001 - 2001)
- Invited Speaker, UCLA; Caltech; University of Florence, Italy; American Inst. Archaeology, Berkeley; University of Central Washington; USGS Menlo Park (2002 - 2002)
- Member of the Board of Directors, Stanford Japan Center (2002 - 2004)
- Organizer Chairman, The OSP/WWII Annual Conferences, Berlin, Germany (2002 - 2004)
- Member, Provost's International Initiative Committee (2004 - present)
- Co-convener, International University Collaboration Program (2006 - present)

PROFESSIONAL EDUCATION

- Ph.D., Massachusetts Institute of Technology , Geophysics (1969)
- B.Sc., Hebrew University , Geology (1962)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Rock physics, tectonophysics, fossil energy exploration, earthquake archaeology

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Amanda Gaggioli

Publications

PUBLICATIONS

- **Unconventional Petroleum Geology Second Edition Foreword** *UNCONVENTIONAL PETROLEUM GEOLOGY, 2ND EDITION*
Li Desheng, Nur, A., Zou, C.
2017: IX-+
- **Rock physics analysis and time-lapse rock imaging of geochemical effects due to the injection of CO₂ into reservoir rocks** *GEOPHYSICS*
Vanorio, T., Nur, A., Ebert, Y.
2011; 76 (5): O23-O33
- **Earthquakes and Civilizations of the Indus Valley: A Challenge for Archaeology** *Ancient Earthquakes*
Kovach, R. L., Grijalva, K., Nur, A. M.
Geological Society of America.2010: 119–127
- **Elastic wave speeds and moduli in polycrystalline ice Ih, sI methane hydrate, and sII methane-ethane hydrate** *JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH*
Helgerud, M. B., Waite, W. F., Kirby, S. H., Nur, A.
2009; 114
- **The catastrophic end of the Bronze Age: Earthquakes or Sea people** *Seismological Research Letters*
Nur, A.
2008; 79: 288
- **Seismic velocities of unconsolidated sands: Part 2 - Influence of sorting- and compaction-induced porosity variation** *GEOPHYSICS*
Zimmer, M. A., Prasad, M., Mavko, G., Nur, A.
2007; 72 (1): E15-E25
- **Pressure Seismic velocities of unconsolidated sands: Part 1 trends from 0.1 to 20 MPa** *Geophysics*
Zimmer, Michael A., Prasad, M., Mavko, G., Nur, A.
2007; 72: E1-E13
- **Seismic velocities of unconsolidated sands: Part 2 - Influence of sorting and compaction induced porosity variation** *Geophysics*
Zimmer, Michael A., Prasad, M., Mavko, G., Nur, A.
2007; 72: E15-E25
- **Subsidence History and Its Impacts to Hydrocarbon Potential of The Song Hong Basin, Vietnam**
Bui, H., Dvorkin, J., Nur, A.
AAPG.2007
- **Subsurface fluid flow and its implications for seabed pockmarks and mud volcanoes: An approach of distinct element method(DEM)** *SEG Expanded Abstracts*
Bui, H., Dvorkin, J., Nur, A.
2007; 26
- **Seismic velocities of unconsolidated sands: Part 1 - Pressure trends from 0.1 to 20 MPa** *GEOPHYSICS*
Zimmer, M. A., Prasad, M., Mavko, G., Nur, A.
2007; 72 (1): E1-E13
- **Permeability-porosity transforms from small sandstone fragments** *GEOPHYSICS*
Kameda, A., Dvorkin, J., Keehm, Y., Nur, A., Bosl, W.
2006; 71 (1): N11-N19
- **Detection of stress-induced velocity anisotropy in unconsolidated sands** *The Leading Edge*
Vega, S., Mavko, G., Nur, A., Prasad, M.
2006; 25: 252-256
- **Evidence for Tectonic Activity During the Mature Harappan Civilization, 2600-1800 BCE** *Eos Trans*
Grijalva, Kelly A., Kovach, Robert L., Nur, A.

2006; 87

- **Earthquakes and Archeology: Neocatastrophism or Science?** *EOS, Transactions American Geophysical Union*
Kovach, Robert L., Nur, A.
2006; 87: 317
- **Evaluation of Porosity and Permeability for an Oil Prospect, Offshore Vietnam by using Artificial Neural Networks** *Eos Transactions American Geophysical Union, Fall Meeting Suppl*
Bui, Huyen T., Ho, L. T., Ushijima, K., Nur, A.
2006; 87
- **Permeability prediction from thin sections: 3D reconstruction and Lattice-Boltzmann flow simulation** *GEOPHYSICAL RESEARCH LETTERS*
Keehm, Y., Mukerji, T., Nur, A.
2004; 31 (4)
- **Transport property modeling in partially-saturated rocks using pore-scale simulations, EOS Trans** *American Geophysical Union*
Keehm, Y., Nur, A.
2004; 85
- **Permeability prediction from thin sections: 3D reconstruction and Lattice-Boltzmann flow simulation** *Geophysical Research Letters*
Keehm, Y., Mukerji, T., Nur, A.
2004; 31: L04606
- **Elastic properties of dry clay mineral aggregates, suspensions and sandstones** *GEOPHYSICAL JOURNAL INTERNATIONAL*
Vanorio, T., Prasad, M., Nur, A.
2003; 155 (1): 319-326
- **Material and stress rotations: The key to reconciling crustal faulting complexity with rock mechanics** *INTERNATIONAL GEOLOGY REVIEW*
Nur, A., Ron, H.
2003; 45 (8): 671-690
- **Measured temperature and pressure dependence of V-p and V-s in compacted, polycrystalline sI methane and sII methane-ethane hydrate** *CANADIAN JOURNAL OF PHYSICS*
Helgerud, M. B., Waite, W. F., Kirby, S. H., Nur, A.
2003; 81 (1-2): 47-53
- **Quantitative acoustic microscopy: Application to petrophysical studies of reservoir rocks**
Prasad, M., Reinstaedtler, M., Nur, A., Arnold, W.
Kluwer, NY..2003
- **Elastic properties of dry clay mineral aggregates, suspensions and sandstones** *GJI*
Vanorio, T., Prasad, M., Nur, A.
2003; 155: 319
- **Rock physics of a gas hydrate reservoir** *The Leading Edge*
Dvorkin, J., Nur, A., Uden, R., Tanner, T.
2003; 22: 842-847
- **Computational rock physics: Lattice-Boltzmann fluid flow simulation in porous media and its applications**
Keehm, Y., Mukerji, T., Nur, A.
Rock Engineering and Geophys Rock Engineering and Geophys.2003
- **Rock property determination using digital rock physics** *SEG Technical Program Expanded Abstracts*
Dvorkin, J., Walls, J., Tutuncu, A., Prasad, M., Nur, A., Mese, A.
2003: 1660-1663
- **Correction to Liquefaction and dynamic poroelasticity in soft sediments by Ran Bachrach, Amos Nur, and Amotz Agnon** *Journal of Geophysical Research*
Bachrach, R., Nur, A., Agnon, A.
2003; 108: ESE 4-1
- **2003 Rock Physics for Gas Hydrate Reservoir Characterization** *AAPG Annual Meeting*

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- Dvorkin, J., Nur, A.
2003
- **Measured temperature and pressure dependence of compressional (V-p) and shear (V-s) wave speeds in compacted, polycrystalline ice Ih** *CANADIAN JOURNAL OF PHYSICS*
Helgerud, M. B., Waite, W. F., Kirby, S. H., Nur, A.
2003; 81 (1-2): 81-87
 - **Real time monitoring of permeability elastic moduli and strength in sands and shales using Digital Rock Physics**
Dvorkin, J., Kameda, A., Nur, A., Mese, A., Tutuncu, A.
2003
 - **Us Patent No: 6516080 - Numerical method of estimating physical properties of three-dimensional porous media** *Patent*
Nur, A.
2003
 - **Aftershocks and pore fluid diffusion following the 1992 Landers earthquake** *JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH*
Bosl, W. J., Nur, A.
2002; 107 (B12)
 - **The 1993 M4.7 Kuwait earthquake: Induced by the burning of the oil fields** *KUWAIT JOURNAL OF SCIENCE & ENGINEERING*
Bou-Rabee, F., Nur, A.
2002; 29 (2): 155-163
 - **Erroneous interpretation of historical documents related to the epicenter of the 1927 Jericho earthquake in the Holy Land** *JOURNAL OF SEISMOLOGY*
Avni, R., Bowman, D., Shapira, A., Nur, A.
2002; 6 (4): 469-476
 - **Ultrasonic velocity measurements in volcanic rocks: correlation with microtexture** *GEOPHYSICAL JOURNAL INTERNATIONAL*
Vanorio, T., Prasad, M., Patella, D., Nur, A.
2002; 149 (1): 22-36
 - **Stratigraphy-guided rock physics** *The Leading Edge*
Gutierrez, M., Dvorkin, J., Nur, A.
2002; 21: 98-103
 - **Us Patent No: 6,374,186 B1. Method for over pressure detection from compressional and shear-wave data.** *Patent*
et al., Dvorkin
2002
 - **Aftershocks and pore fluid diffusion following the Landers earthquake** *Journal of Geophysical Research, Vol. 107, No. B*
Bosl, W. J., Nur, A.
2002; 107: 2366
 - **Efficient parallel implementation of two-phase Lattice-Boltzmann flow simulation.** *72nd International Symposium of Society of Exploration Geophysicists*
Keehm, Y., Mukerji, T., Nur, A.
2002: 1829-1832
 - **Quantitative acoustic microscopy: Application to petrophysical studies of reservoir rocks** *26th International Acoustical Imaging Symposium (IAIS)*
Prasad, M., Reinstaedtler, M., Nur, A., Arnold, W.
KLUWER ACADEMIC/PLENUM PUBL.2002: 493-501
 - **On the universality of diagenetic trends** *The Leading Edge (SEG)*
Dvorkin, J., Gutierrez, M., Nur, A.
2002; 21: 40-43
 - **Us Patent No: 6,516,080 B1. Numerical method of estimating physical properties of three-dimensional porous media** *Patent*
Nur, A., Bosl, W.
2002

- **The 1993 M4.7 Kuwait earthquakes: Induced by the burning of the oil fields** *Kuwait J. Sci. Eng.*
Bou-Rabee, F., Nur, A.
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- **Parallel two-phase flow simulation and representative elementary volume** *EOS Trans American Geophysical Union, Vol. , Fall Meeting Supplement Abstract*,
Keehm, Y., Mukerji, T., Nur, A.
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- **Liquefaction and dynamic poroelasticity in soft sediments** *JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH*
Bachrach, R., Nur, A., Agnon, A.
2001; 106 (B7): 13515-13526
- **Residual topography, lithospheric structure and sunken slabs in the central Mediterranean** *EARTH AND PLANETARY SCIENCE LETTERS*
Gvirtzman, Z., Nur, A.
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- **Linking oil production to surface subsidence from satellite radar interferometry** *GEOPHYSICAL RESEARCH LETTERS*
Xu, H. B., Dvorkin, J., Nur, A.
2001; 28 (7): 1307-1310
- **Effect of initial distribution of two fluids on relative permeability using Lattice-Boltzmann method, EOS Trans** *Fall Meeting Supplement Abstract, American Geophysical Union*
Keehm, Y., Mukerji, T., Nur, A.
2001; 82: T32E-0917
- **AAPG Special Volume: Pressure Regimes in Sedimentary Basins and their Prediction**
Dvorkin, J., Nur, A.
Alan Huffman.2001: 33-41
- **Computational rock physics at the pore scale: Transport properties and diagenesis in realistic pore geometries** *The Leading Edge*
Keehm, Y., Mukerji, T., Nur, A.
2001; 20: 180-183
- **Two-phase flow in complex porous media using Lattice-Boltzmann method** *SEG International Exposition and 71st International Symposium of Society of Exploration Geophysicists, Expanded Abstract*
Keehm, Y., Mukerji, T., Nur, A.
2001: 1724-1727
- **Theoretical rock physics for bypassed oil detection behind casing: La Cira-Infantas Oil Field** *The Leading Edge*
Gutierrez, M., Dvorkin, J., Nur, A.
2001; 20: 192-197
- **3-D seismic interperation of tectonic wrenching and faulting in La Cira-Infantas** *The Leading Edge, July*
Gutierrez, Mario A., Nur, A.
2001; 2001: 752-760
- **What rigged the collapse? Earthquake storms.** *Odyssey Magazine*
Nur, A., Cline, Eric H.
2001: 31-36
- **Permeability and porosity of sandstone from 2D microimages** *Geophysics*,
Kameda, A., Dvorkin, J., Keehm, Y., Nur, A., Bosl, B.
2001: 2004-0112
- **Integrating reservoir engineering and satellite remote sensing for (true) continuous time-lapse reservoir monitoring** *The Leading Edge*
Xu, H., Nur, A.
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- **Permeability as a toggle switch in fluid-controlled crustal processes** *EARTH AND PLANETARY SCIENCE LETTERS*
Miller, S. A., Nur, A.

2000; 183 (1-2): 133-146

- **Estimating the amount of gas hydrate and free gas from marine seismic data** *GEOPHYSICS*
Ecker, C., Dvorkin, J., Nur, A. M.
2000; 65 (2): 565-573
- **Seismic velocities and Poisson's ratio of shallow unconsolidated sands** *GEOPHYSICS*
Bachrach, R., Dvorkin, J., Nur, A. M.
2000; 65 (2): 559-564
- **Use of compressional and shear wave velocity for overpressure detection, Proceedings - Offshore Technology Conference** *Proceedings - Offshore Technology Conference*
Walls, J., Dvorkin, J., Mavko, G., Nur, A.
2000; 32: 199-203
- **Rock physics characterization for gas hydrate reservoirs - Elastic properties** *3rd International Conference on Gas Hydrates*
Helgerud, M. B., Dvorkin, J., Nur, A.
NEW YORK ACAD SCIENCES.2000: 116-125
- **Acoustic properties in rocks saturated with petroliferous liquids: Chapter 9 in Handbook Elastic Properties of Solids, Liquids and Gases, Volume IV: Elastic Properties of Fluids: Liquids and Gases, eds**
Prasad, M., Nur, A., Mavko, G., Dvorkin, J.
Lev.2000
- **Acoustic properties of petroliferous liquids: Chapter 8 in Handbook of Elastic Properties of Solids, Liquids and Gases, Volume IV: Elastic Properties of Fluids: Liquids and Gases, eds**
Prasad, M., Nur, A., Mavko, G., Dvorkin, J.
Levy, Bass and Stern.2000
- **Introduction to physical properties and elasticity models.**
Dvorkin, J., Helgerud, M., Waite, F. W., Kirby, S. H., Nur, A.
2000
- **Permeability as a toggle switch in fluid-controlled crustal processes** *Elsevier, Earth and Planetary Science Letters*
Miller, Stephen A., Nur, A.
2000; 183: 133-146
- **Seismic velocities and Poisson's ration of shallow unconsolidated sands** *Geophysics, v*
Bachrach, R., Dvorkin, J., Nur, A.
2000; 65: 559-564
- **Crustal fluids and earthquakes -GeoComplexity and the Physics of earthquakes.** *Geophysical Monograph 120, AGU.*
Bosl, William J., Nur, A.
2000
- **Poseidon's horses: Plate tectonics and earthquakes storms in the Late Bronze Age Aegean and Eastern Mediterranean** *Journal of Archaeology Science*
Nur, A., Cline, Eric H.
2000; 27: 43-63
- **Permeability Estimation by Numerical Flow Simulation on 3-D Porous Media Extended from Thin Sections, EOS Trans AGU**
Keehm, Y., Mukerji, T., Prasad, M., Dvorkin, J., Mavko, G., Nur, A.
2000; 81
- **Flow-limited Diagenesis and Transport Properties of Porous Media using Lattice-Boltzmann Method, 70th International Symposium of Society of Exploration Geophysicists** *Expanded Abstract*
Keehm, Y., Mukerji, T., Nur, A.
2000: 1854-1857
- **Laboratory measurements of compressional and shear wave speeds through methane hydrate** *3rd International Conference on Gas Hydrates*
Waite, W. F., Helgerud, M. B., Nur, A., Pinkston, J. C., Stern, L. A., Kirby, S. H., Durham, W. B.
NEW YORK ACAD SCIENCES.2000: 1003-1010

- **Plate detachment, asthenosphere upwelling, and topography across subduction zones** *Geology, no*
Zohar, G., Nur, A.
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- **Overpressure detection from compressional- and shear-wave data** *GEOPHYSICAL RESEARCH LETTERS*
Dvorkin, J., Mavko, G., Nur, A.
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- **Identifying patchy saturation from well logs** *GEOPHYSICS*
Dvorkin, J., Moos, D., Packwood, J. L., Nur, A. M.
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- **The formation of Mount Etna as the consequence of slab rollback** *NATURE*
Gvirtzman, Z., Nur, A.
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- **Holocene stratigraphy of the Dead Sea: Correlation of high-resolution seismic reflection profiles to sediment cores** *JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH*
Ben-Avraham, Z., Niemi, T. M., Heim, C., Negendank, J., Nur, A.
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- **Elastic moduli of cemented sphere packs** *MECHANICS OF MATERIALS*
Dvorkin, J., Berryman, J., Nur, A.
1999; 31 (7): 461-469
- **Elastic-wave velocity in marine sediments with gas hydrates: Effective medium modeling** *GEOPHYSICAL RESEARCH LETTERS*
Helgerud, M. B., Dvorkin, J., Nur, A., Sakai, A., Collett, T.
1999; 26 (13): 2021-2024
- **Plate detachment, asthenosphere upwelling, and topography across subduction zones** *GEOLOGY*
Gvirtzman, Z., Nur, A.
1999; 27 (6): 563-566
- **Elastic-wave velocities in sandstones with non-load-bearing clay** *GEOPHYSICAL RESEARCH LETTERS*
Gal, D., Dvorkin, J., Nur, A.
1999; 26 (7): 939-942
- **Sediments with gas hydrates: Internal structure from seismic AVO** *Geophysics*
Ecker, C., Dvorkin, J., Nur, A.
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- **Seismic detection of viscous contaminant using shallow seismic reflection**
Bachrach, R., Nur, A., Rickett, J.
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- **High-resolution shallow-seismic experiments in sand, Part II: Velocities in shallow unconsolidated sand** *Geophysics*
Bachrach, R., Nur, A.
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- **High-resolution shallow-seismic experiments in sand, Part I: Water table, fluid flow, and saturation** *Geophysics*
Bachrach, R., Nur, A.
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- **Holocene stratigraphy of the Dead Sea: correlation of high-resolution seismic reflection profiles to sediment cores** *JGR*
Avraham, B., Z., T. M. Niemi, Heim, C., Negendank, J., Nur, A.
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- **Note: A new estimate for the epicenter of the Jericho earthquake of 11 July, 1927** *Israel J. of Earth Sci.*
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- **Identifying patchy saturation from well logs** *Geophysics*
Dvorkin, J., Moos, D., Packwood, J., Nur, A.
1999; 64: 1-5
- **Poseidon's horses: Plate tectonics and earthquake storms in the Late Bronze Age Aegean and Eastern Mediterranean** *J. Arch. Sci.*
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- **Elastic strain energy as a control in the evolution of asymmetric pressure-solution contacts** *GEOLOGY*
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Gal, D., Nur, A., Aharonov, E.
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- **A physical model for porosity reduction in sandstones** *GEOPHYSICS*
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- **Vertical axis rotations in the Mojave: Evidence from the Independence dike swarm: Reply** *GEOLOGY*
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- **The effect of a percolation threshold in the Kozeny-Carman relation** *GEOPHYSICS*
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Bachrach, R., Nur, A.
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- **Vertical axis rotations in the Mojave: Evidence from the Independence dike swarm** *GEOLOGY*
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- **Elasticity of high-porosity sandstones: Theory for two North Sea data sets** *GEOPHYSICS*
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