

mechanics

Academia Americana de Mecánica

American Academy of Mechanics

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mechanics

mechanics provides its readers with news in the field of theoretical and applied mechanics, and serves as a forum for the presentation and discussion of issues related to the development of the science and profession of mechanics. Opinions expressed are those of the authors and do not necessarily reflect official points of views of AAM or the institutions with which the authors are affiliated.

Editor: Horacio D. Espinosa (Northwestern University, U.S.A.)

Associate Editors: Gustavo Buscaglia (Balseiro Institute, Argentina), Eduardo Dvorkin (Univ. Nac. de Buenos Aires, Argentina), Robert Haythornthwaite (Temple University, U.S.A), Dean T. Mook (Virginia Tech, U.S.A), Djenane Pamplona (PUC-Rio, Brazil), G. Ravichandran (Caltech, U.S.A).

The *American Academy of Mechanics* is a non-profit corporation incorporated in 1969 under the laws of the Commonwealth of Pennsylvania. Its objective is to advance the science and profession of mechanics, with particular reference to the countries of North, South, and Central America. It aims to facilitate cooperation among mechanicians, to encourage recognition of achievements in mechanics, and to promote public understanding of the work of the mechanician.

Board of Directors (2001): F. Moon (Cornell University), President and Chairman of the Board; D. Krajcinovic (Arizona State University), Immediate past President; D.T. Mook (VPI and State University), Secretary; R.A. Heller (VPI and State University), Treasurer; Open position (formerly held by F. Moon, current President), Director, Region IA (Eastern USA); S. Datta (University of Colorado), Director, Region IB (Central and Western USA); Open position (formerly held by the late B. Tabarrok, U. of Victoria), Director, Region II (Canada); P. Kittl (University of Chile, Chile) Director, Region III (Central and South America); R.M. Haythornthwaite (Temple University), Publisher; C.W. Bert (Univ. of Oklahoma), Secretary to the Fellows.

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American Academy of Mechanics
Academia Americana de Mecánica

American Academy of Mechanics

1. The 62nd meeting of the Board of Directors, Fellows and Members was held on June 27, 2001, 4:00 PM at the Joint Applied Mechanics and Materials Summer Conference in San Diego, California. Attending were the following;

Francis Moon, Cornell U., President, Millard Beatty, U. Nebraska, New President, Horacio Espinosa, Northwestern U., Editor of *Mechanics*; Zdenek Bazant, Northwestern U. AAM Representative to US National Committee, and the following members and non-members:

J-G. Beliveau, UVM, B Bernstein, IIT, K. Chong, NSF, A. Cuitino, Rutgers, I. Daniel, Northwestern U, K. Galikipati, U. Michigan, J. Keyser, Brown U., K. Pister, UC Berkeley, N. Sottos, U. Illinois, A. Wineman, U. Michigan.

2. The minutes from the 61st Meeting received no comments or changes. A report on the state of the budget from Dean Mook, was distributed and discussed.

3. A report from H. Espinosa of *Mechanics* was presented and discussed. It was agreed that some new mission and format should be explored for *Mechanics*. Moon suggested a small committee be established to report at the Winter Meeting. Beatty suggested that Espinosa, Cuitino, and Sottos serve on the committee. Espinosa said that a change of editorship might coincide with a new *Mechanics* and mentioned that there was a AAM member interested in taking the position.

4. On the Founder's Prize it was suggested that the deadline for applications be advertised in *Mechanics*.

5. On PACCAM, a report from Dean Mook, said there were only a few North American applicants for the January 2002 meeting. There was a good discussion about the future of PACCAM. Some suggested that the date was too close to family holiday activities and suggested future meeting be held one or two weeks later in January. Ken Chong said NSF had funds to help support a Pan American meeting. Some suggested more effort should be done to get Mexican mechanics interested in both AAM and organizing a PACCAM. Moon reported that Secretary Dean Mook was going to make another mailing to members to encourage more participation in the January 2001 PACCAM.

6. Zdenek Bazant reported from the US National Committee that the 2004 National Congress of Theoretical and Applied Mechanics would be held at the University of Colorado.

7. There was open discussion about the requirement of Fellow status for the President of AAM and its effect on limiting younger members from assuming leadership positions in AAM. The small number of elected Fellows each year was felt by some to play a role in this problem.

8. All congratulated the new president Millard Beatty. The meeting adjourned at 5:00 PM to permit members to attend the general lecture of fellow colleague Jan Achenbach.

Nanotechnology Institute to focus on the world of molecular devices

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Emily M. Smith

ASME NEWS

Vol. 20, No. 7, July 2001

Published by the American Society of Mechanical Engineers

Recognizing the increasing impact of nanotechnology on engineering and science, ASME's Board of Governors last month approved Development Funding for a virtual institute - a clearinghouse for ASME's nanotechnology related activities.

Operating as a virtually Web-based institute, its aim will be providing international forums for technology transfer in the design, synthesis, manipulation and control of nanoscale systems - technologies at the level of atoms and molecules that have applications in the real world.

The goals of the Institute are to support nanotechnology design and development and the commercialization of the products and processes that use nanotechnology, while promoting ASME as the leading engineering society for the practical application of nanotechnology as well as for the interdisciplinary engineers and scientists who will serve as the systems integrators.

The Institute will provide a platform for launching new revenue-generating products. New recruitment efforts through the Institute will address nonmember engineers and scientists in key market segments, such as biotechnology, computing, electronics, energy, environment, health care, information technology, instrumentation, manufacturing, materials, optics, space exploration and transportation.

Although the Council on Engineering submitted the Development Fund proposal to the BOG, two other councils will also be actively involved in the Institute: the Council on Education and the Council on Public Affairs.

A Board of Advisors, comprised of practitioners and researchers from industry, government and academia, will offer guidance on how ASME can meet needs in the multidisciplinary field of nanotechnology.

Among the first activities to be organized by the Institute are a series of conferences on the application of traditional mechanical engineering disciplines on the nanoscale, the development of a Web site for the Institute, and the creation of a publication on nanotechnology and nanoengineering.

ASTM Course Covers European Union Entry Requirements for Products

W. CONSHOHOCKEN, Pa., 27 June 2001

The course, "Technical Requirements for Entry into the European Union," focuses on guiding attendees through the maze of technical requirements for U.S. products being entered into the European Union and other Eastern European countries. Designed for those who need to know more about such requirements $\frac{3}{4}$ CEOs, marketing managers, engineers, designers, quality control managers, strategic planners, and government officials $\frac{3}{4}$ this ASTM Technical and Professional Training course can be brought to your site by contacting Maureen Quinn, ASTM, West Conshohocken, Pa. (phone: 610/832-9725; email: mquinn@astm.org), who can also provide upcoming scheduled class dates and locations.

Course instructor Helen Delaney, president of Delaney Consulting, has spent her career in the standards community and has more than 27 years of experience in the field. She is the former Standards Attache of the U.S. Mission to the European Union in Belgium, and consequently has experience in providing advice regarding technical obstacles to trade in Europe. She is also the former ASTM Washington Representative and Director of Global Affairs.

Topics covered in the course include new European-wide laws, the standards products must meet and why, testing certification and quality control requirements, risk assessment requirements, technical construction file, users manuals, notified bodies, CE marking, export documentation, authorized representatives, and product liability.

If your company's products fall under the following "New Approach Directives," which are laws governing health, safety, and environmental aspects of products, attendance would be useful. These directives apply to appliances burning gaseous fuels, construction products, electromagnetic compatibility, energy efficiency requirements for household refrigerators and freezers, equipment and protective systems in potentially explosive atmospheres, explosives for civil uses, elevators, low voltage equipment, medical devices, non-automatic weighing instruments, packaging and packaging waste, personal protective equipment, pressure equipment, recreational craft, safety of machinery, toy safety, simple pressure vessels, radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

The \$345 course fee includes a *User's Guide to the European Market*, course notes, certificate of attendance, and 0.7 CEUs. Questions about the course can be directed to Eileen Finn, ASTM, West Conshohocken, Pa. (phone: 610/832-9686; fax: 610/832-9668); or visit the ASTM home page at www.astm.org.

Established in 1898, ASTM is one of the largest standards development and delivery systems in the world. ASTM standards are accepted and used in research and development, product testing, quality systems, and commercial transactions around the globe.

STLE and ILMA Launch Online Education Joint Venture

The Society of Tribologists and Lubrication Engineers (STLE) and the Independent Lubricant Manufacturers Association (ILMA) announce formation of **LubeLearn**, a comprehensive online education effort. This joint venture initiative by the two associations will provide new educational opportunities to the worldwide membership of both organizations and the lubrication industry in general.

Starting on July 1, 2001, users can access an initial series of three courses on fundamental theories of lubrication at www.lubelearn.org. Plans for additional site content are being developed through the combined efforts of STLE and ILMA, with the goal of establishing **LubeLearn** as the premier web-based lubrication education provider.

In describing plans for the new joint program, ILMA Executive Director Michael Metallo and STLE Executive Director Edward Salek said, "STLE and ILMA believe the Internet is the education delivery tool of the future. The **LubeLearn** site will offer companies that supply or use lubricants a convenient and cost-effective option for employee education and training."

The statement continues, "These e-learning courses will enable lubrication professionals from around the world to access educational opportunities 24 hours a day 7 days a week via their computers. Association industry sources predict 50% of all continuing professional education will be delivered online by 2004, so STLE and ILMA are helping lead the way for the lubrication industry."

This new education initiative is supported with technical assistance provided by CertiLearn (Falls Church, Va.), the leading provider of e-learning solutions for associations. Its turnkey solution allows associations to deliver knowledge content to targeted audiences in a convenient and cost-effective way. Users are able to register, pay for and access courses online. After entering an online course, students can study the content material, communicate with each other, participate in group sessions and take tests online.

The first online offerings will contain three segments that are based on the highly regarded "Basic Lubrication" course taught at STLE's annual meeting and around the world at a variety of conferences. There will be a fee for accessing the courses. At this time, members of STLE and ILMA will be charged \$150 per segment. Nonmember fees will be \$200 per segments.

STLE is an engineering and technical society headquartered in Park Ridge, Illinois. It serves the lubrication industry worldwide with its annual meeting held each May, several conferences in tribology and condition monitoring, publications including *Lubrication Engineering* and *Tribology Transactions*, and other activities. For further information, phone 947-825-5536, FAX 847-825-1456, Email information@stle.org, or visit the website www.stle.org.

ILMA is a trade association of independent compounders and blenders of lubricants and metalworking fluids. ILMA's nearly 300 member firms produce approximately one-quarter of all lubricants and three-quarters of all metalworking fluids sold in North America. ILMA also publishes the award-winning monthly industry magazine *Compoundings*, and a variety of other honored publications including ILMA's Annual Membership Directory. ILMA meets the needs of its company members by providing a forum for interaction in areas of common interest, and to provide group effort in the economic, political and technical environments where group, rather than individual, effort is more effective. For further information please write bruce@ilma.org or visit ILMA on the web at www.ilma.org or www.compoundings.org.

January 2-4, 2002 Seventh Pan American Congress of Applied Mechanics

PACAM VII

Séptimo Congreso Pan Americano de Mecánica Aplicada

Enero 2-4, 2002

Universidad de la Frontera, Temuco, Chile

The *Seventh Pan American Congress of Applied Mechanics* (PACAM VII), jointly sponsored by the *Universidad de La Frontera* and the *American Academy of Mechanics*, will be held *January 2-5, 2001* in *Temuco, Chile*. The Chairman of the Organizing Committee is *Professor P. Kittl* of the Universidad de Chile. The Co-Vice Chairmen are *Professor G. Díaz* of the Universidad de Chile and *Professor D. Mook* of the Virginia Polytechnic Institute and State University. The Chairman of the Editorial Committee is *Professor A. Valencia* of the Universidad de Chile, and the Chairman of the Local Arrangements Committee is *Professor E. Vogel* of the Universidad de la Frontera, Temuco, Chile.

Temuco is a beautiful resort city located in the forested lake region of southern Chile, in the very heart of Araucany, the ancient land of the Mapuche, an Indian tribe of the Araucan family. It boasts many fine hotels and restaurants as well as magnificent alpine vistas, lakes, and hiking trails.

The aim of the sponsors is to promote progress in the broad field of mechanics by (1) exposing mature engineers and scientists as well as advanced graduate students to new research findings, techniques, and problems and (2) providing opportunities for personal interactions through formal presentations and informal conversations. It is the only conference sponsored by the American Academy of Mechanics.

The Pan American Congresses of Applied Mechanics are held every two years, always in a Latin American venue, at a time when few other conferences are scheduled. The previous Congresses were held in Rio de Janeiro, Brazil in 1989; Valparaiso, Chile in 1991; São Paulo, Brazil in 1993; Buenos Aires, Argentina in 1995; San Juan, Puerto Rico in 1997; and Rio de Janeiro, Brazil in 1999. Approximately 400 people from Africa, the Americas, Asia, Australia, and Europe attended the last one.

For more information please contact either of the following:

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Please visit the PACAM VII website at the AAM website: <http://www.AAMech.org/>

**14th U.S. National Congress of
Theoretical and Applied Mechanics**

will be hosted by the

**Department of Engineering Science and Mechanics
Virginia Polytechnic Institute and State University
Blacksburg, VA 24061**

June 23-28, 2002

Important Dates:

- **31 January 2002** Abstracts due
- **28 February 2002** Acceptance/Declination letters mailed
- **31 March 2002** Preliminary Program mailed
- **1 May 2002** Deadline for reduced registration fee of \$375.00
- **23-28 June 2002** Conference Program

For Additional Information:

Please visit the web site www.esm.vt.edu/usncam14/

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A Symposium on

Nanotechnology and MEMS: Experiments and Modeling

Sponsored and organized by Professors
H. D. Espinosa, of Northwestern University
R. Ballarini of Case Western Reserve University
W. Knauss of California Institute of Technology

To be held at the
14th US National Congress of Applied Mechanics
in Virginia Tech, Blacksburg, Virginia
June 23-28, 2002

www.esm.vt.edu/usncam14

The purpose of this symposium is to foster the interaction and networking of those working throughout universities, industries, and government laboratories in the general area of micro and nano systems, and to provide an opportunity for the exchange of ideas in an interdisciplinary forum.

The experimentation and modeling of micro and nano systems, as well as advanced materials and fabrication processes at small scales has emerged as a powerful tool in applications that range from sensors, actuators, and bio-chips to the design of bio-materials and the optimization of lithographic methods.

Advances in computer power have likewise facilitated the development of new methodology that examine the processes occurring at the atomic scale and predictions of the collective dynamics of ensembles of particles on a mesoscopic scale. Linking atomic scale processes – modeled with interatomic potentials, and ab initio methods – to micro and mesoscopic manifestations still remains a significant challenge.

This symposium will focus on the role of mechanics in nanotechnology and MEMS within the larger scope of assessing research needs in a variety of applications of interest. Renowned and leading researchers, in microelectromechanical systems, and nanotechnology will open each one of the five scheduled sessions.

Topics of particular interest include, but are not limited to, the following areas:

- Simulation methods for length scale linking; coupling quantum to atomistic and atomistic to continuum simulations.
- Indentation, scratch and wear test techniques from nanometer to micrometer length scales.
- Mechanisms of surface and thin film coarsening; self-organized pattern formation in thin films, driven atomic motion.
- Adhesion, fracture and plasticity of thin films and coatings.
- Creep and stress relaxation mechanism detection.
- Modeling methods for printing, imprinting, molding and embossing.
- Modeling and experiments of photonic devices, sensors, actuators, bio-chips, fluidic systems and MEMS in general.
- Modeling the mechanical behavior of nanostructured materials; defect structure and interface structure of nanocomposites.
- In-situ AFM/SEM/HRTEM experiments performed on thin films and multi and single walled nanocarbon tubes.
- Collective dynamics of defects and interplay between phase composition, phase transformations, and plasticity.

For More Information, please contact:

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Abstracts should be submitted to Prof. Horacio D. Espinosa no later than Jan. 20, 2002.

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National Research Council
Postdoctoral Research Associateship

Micromechanical Modeling of Textile Materials

tenable at the:

Natick Soldier Center, US Army Soldier & Biological Chemical Command
Natick, Massachusetts

Textiles, particularly woven fabrics, act as load-bearing structural materials in such demanding Army applications as parachute systems, inflatable “air-beams” and protective body armor. Often, the textile experiences high strain rate deformation in end-use, leading to possible thermal softening effects as heat is generated by fiber-on-fiber surface friction or internal plastic dissipation. The development of improved, high-performance materials will be greatly advanced by research that provides a basis for microstructural design of new materials to supplant traditional trial and error materials development. Emphasis is on analytical and experimental work concerning micromechanical models for textile and fibrous structures to understand and predict macroscopic mechanical behavior (*e.g.*, stress-strain, tear propagation, strength and failure behavior). Opportunities exist in the following areas: 1) Thermal softening-related strain localization in the high strain rate deformation of fibers. 2) Micro-mechanical modeling of the onset of tear propagation at local damage sites in stressed coated and uncoated woven fabrics. 3) Fiber-to-fiber interactions in novel two component blended or hybrid fibrous structures.

This opportunity is posted on the National Academies web site at:

<http://www4.nationalacademies.org/osep/rap.nsf>.

For more information, please contact:

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Phone: (508) 233-4675.

- 1497 Microstructures and dislocation configurations in nanostructured cu processed by repetitive corrugation and straightening Huang JY, Zhu YT, Jiang H, Lowe TC.
- 1507 Mechanical properties of zr56.2ti13.8nb5.0cu6.9ni5.6be12.5 ductile phase reinforced bulk metallic glass composite Szuecs F, Kim CP, Johnson WL.
- 1515 A mechanistic study of oxidation-induced degradation in a plasma-sprayed thermal barrier coating system. part i: model formulation Busso EP, Lin J, Sakurai S, Nakayama M.
- 1529 A mechanistic study of oxidation-induced degradation in a plasma-sprayed thermal barrier coating system. part ii: life prediction model Busso EP, Lin J, Sakurai S.
- 1537 Modeling the formation of twins and stacking faults in the ag-cu system Han K, Hirth JP, Embury JD.
- 1541 The influence of coherent ticu plate-like precipitates on the thermoelastic martensitic transformation in melt-spun ti50ni25cu25 shape memory alloys Rosner H, Schlossmacher P, Shelyakov AV, Glezer AM.
- 1549 Effect of semisolid microstructure on solidified phase content in lxxx al alloys Allen CM, O'Reilly KAQ, Cantor B.
- 1565 The effect of heat treatment on the stiffness of zirconia top coats in plasma-sprayed tbc's Thompson JA, Clyne TW.
- 1577 Stress and shape evolution of irregularities in oxide films on elastic-plastic substrates due to thermal cycling and film growth Ambrico JM, Begley MR, Jordan EH.
- 1589 Study of grain boundary character along intergranular stress corrosion crack paths in austenitic alloys Gertsman VY, Bruemmer SM.
- 1599 Dislocation evolution in epitaxial multilayers and graded composition buffers Wang TC, Zhang YW, Chua SJ.
- 1607 Work-hardening/softening behaviour of bcc polycrystals during changing strain paths: i. an integrated model based on substructure and texture evolution, and its prediction of the stress-strain behaviour of an if steel during two-stage strain paths Peeters B, Seefeldt M, Teodosiu C, Kalidindi SR, Van Houtte P, Aernoudt E.
- 1621 Work-hardening/softening behaviour of bcc polycrystals during changing strain paths: ii. tem observations of dislocation sheets in an if steel during two-stage strain paths and their representation in terms of dislocation densities Peeters B, Bacroix B, Teodosiu C, Van Houtte P, Aernoudt E.
- 1633 Life prediction of titanium mmcs under low-cycle fatigue Xia ZH, Curtin WA.
- 1647 First principles study of site substitution of ternary elements in nial Song Y, Guo ZX, Yang R, Li D.
- 1655 Kinetics and mechanisms of reactive solid state dewetting in the system ag-ni-o De Monestrol H, Schmirgeld-Mignot L, Molinas-Mata PJA, Poissonnet S, Martin G, Allen AJ, Ilavsky J, Long GG, Wallace JS, Berndt CC, Herman H.
- 1661 Microstructural characterization of yttria-stabilized zirconia plasma-sprayed deposits using multiple small-angle neutron scattering Markaki AE, Clyne TW.
- 1677 The effect of cell wall microstructure on the deformation and fracture of aluminium-based foams

- 1687 The significance of acoustic emission during stressing of tial-based alloys. part 1: detection of cracking during loading up in tension Botten R, Wu X, Hu D, Loretto MH.
- 1693 The significance of acoustic emission during stressing of tial-based alloys. part 2: influence of cracks induced by pre-stressing on the fatigue life Wu X, Hu D, Botten R, Loretto MH.
- 1701 Recrystallisation textures of particle-containing al-cu and al-mn single crystals Engler O, Kong XW, Lucke K.
- 1717 Internal stress superplasticity in the nial-mo eutectic alloy Sundar RS, Kitazono K, Sato E, Kuribayashi K.
- 1725 Influence of fe substitutions on the deformation behavior and fault energies of ni3ge-fe3ge ll(2) intermetallic alloys Balk TJ, Kumar M, Hemker KJ.
- 1737 Energies of (001) twist grain boundaries in silicon Otsuki A.
- 1747 Wetting anisotropy and oxygen activity dependency for oxides by liquid transition metals studied through shape changes of liquid cu inclusions within mgo Backhaus-Ricoult M.
- 1759 Hot working of aa10 - relating the microstructural and textural developments Samajdar I, Ratchev P, Verlinden B, Aernoudt E.
- 1771 Spinodal decomposition and coarsening of stressed thin films on compliant substrates Leo PH, Johnson WC.
- 1789 Kinetic paths for b2 order in nanocrystalline feco-mo: a mossbauer spectroscopic study Sarkar S, Bansal C.
- 1793 A numerical model for the cyclic instability of thermally grown oxides in thermal barrier systems Karlsson AM, Evans G.
- 1805 Uniqueness and self similarity of size distributions in grain growth and coarsening Pande CS, Rajagopal AK.
- 1813 Computer simulation of the estimation of the maximum inclusion size in clean steels by the generalized pareto distribution method Shi G, Atkinson HV, Sellars CM, Anderson CW, Yates JR.
- 1821 Crystallochemical aspects of solid state reactions in mechanically alloyed al-cu-fe quasicrystalline powders Salimon AI, Korsunsky AM, Shelekhov EV, Sviridova TA, Kaloshkin D, Tcherdyntsev VS, Baldokhin YV.
- 1835 Experimental and numerical analysis of localization during sequential test for an if-ti steel Hoc T, Rey C, Raphanel JL.

- 1847 Nanoscale phase field microelasticity theory of dislocations: model and 3d simulations
 Wang YU, Jin YM, Cuitino AM, Khachatryan AG.
- 1859 Multi-axial yield behaviour of polymer foams
 Deshpande VS, Fleck NA.
- 1867 A model of grain refinement incorporating alloy constitution and potency of heterogeneous nucleant particles
 Easton MA, StJohn DH.

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- 1879 A phase-field model for evolving microstructures with strong elastic inhomogeneity
 S.Y. Hu, L.Q. Chen
- 1891 Isothermal decomposition of α -ferrite in a 25cr-7ni-0.14n stainless steel
 S. Kobayashi, K. Nakai, Y. Ohmori
- 1903 Initial crystallization processes of hf-cu-m (m=pd, pt or ag) amorphous alloys
 C. Li, S. Ranganathan, A. Inoue
- 1909 Nanoscale structural evolution of Al_3Sc precipitates in al(sc) alloys
 E.A. Marquis, D.N. Seidman
- 1921 Internal structures and shape memory properties of sputter-deposited thin films of a ti-ni-cu alloy
 T. Matsunaga, S. Kajiwara, K. Ogawa, T. Kikuchi, S. Miyazaki
- 1929 Entry, transport and absorption of hydrogen in low-temperature plasma nitrided austenitic stainless steel
 T. Zakroczymski, J. Flis, N. Lukomski, J. Mankowski
- 1939 Bulk alumina support with high tolerant strain and its reinforcing mechanisms
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