

ROMANIAN ACADEMY
Department of Technical Sciences

ACADEMY OF TECHNICAL SCIENCES

**COMMISSION OF ACOUSTICS
OF ROMANIAN ACADEMY**



**THE ANNUAL SYMPOSIUM
OF THE INSTITUTE OF SOLID MECHANICS
SISOM 2009
and
SESSION OF THE COMMISSION OF ACOUSTICS**

Bucharest, May 28-29, 2009

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Session 1 – System dynamics and continuum mechanics

(1D) Polidor BRATU

Analysis of the dissipated energy inside hysteretic systems consisting on neoprene elements as a function of external excitation nature.

(2D) Gheorghe MORARU, Viorica TIBICHI

The determination of the stress intensity factors in three-dimensional bodies.

(3D) Raluca ROSCA, Corina DRAPACA

Direct and inverse problems for the eversion of a spherical shell.

(4D) Lupoae MARIN, Carmen BUCUR

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(5D) Boris RYBAKIN, Grigore SECRIERU, Peter LUGOVOI, Vladimir MEISH

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(6D) Ștefan SOROHAN, Georgiana Luminița ENĂCHESCU, Nicolae CONSTANTIN, Viorel ANGHEL

Distortions in the dynamics of damaged composite plates

- (7D) Ștefan SOROHAN, Georgiana Luminița ENĂCHESCU, Nicolae CONSTANTIN, Viorel ANGHEL
Numerical characterization of vibrational behavior of composite plates.
- (8D) Dinu BRATOSIN
On natural periods of the systems with nonlinear materials.
- (9D) Liviu MARIN
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- (10D) SILVIU NASTAC
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- (11D) Silviu NASTAC, Gilbert-Rainer GILLICH, Adrian LEOPA, Carmen DEBELEAC
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- (12D) Viorel ANGHEL, Nicolae CONSTANTIN, Mircea GĂVAN, Ștefan SOROHAN, Andreea BORĂTU
Some applications of Pulse Thermography in NDE of structures.
- (13D) Gabriela TONȚ, Luige VLĂDĂREANU, Radu MUNTEANU jr., Dan George TONȚ
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- (14D) Dan Mihai CONSTANTINESCU, Marin SANDU, Madalina Oana STOICA, Adriana SANDU,
Matei Constantin MIRON, Dragos Alexandru APOSTOL
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- (15D) Adriana SANDU, Marin SANDU, Dan Mihai CONSTANTINESCU
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- (16D) Diana POPOVICI, Ovidiu POPOVICI, Radu MUNTEANU jr., Zachei PODEA
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- (17D) Cristina OPRITESCU, Oana PETCOVICIU, Mihai Ilie TOADER
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- (18D) Aurelia TANASOIU, Ion COPACI
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- (19D) Dan DUMITRIU, Cornel SECARA
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- (20D) Doru TURCAN
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- (21D) Marcel MIGDALOVICI
On the possible structure of unbounded points of integrable functions in mechanical modeling.
- (22D) Ion STROE, Andrei CRAIFALEANU
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- (23D) Săndel OGARU , Nicolae PANDREA
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- (24D) P.P.TEODORESCU, L.MUNTEANU, V.CHIROIU
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- (25D) Dan Alexandru IORDACHE, Andrei PETRESCU and Viorica IORDACHE
Study of the main theoretical models and of the numerical simulations of the acoustic and optical solitons propagation.
- (26D) Nicolae Doru STANESCU
On a system with neo-hookean elements.
- (27D) Mihaela POIENARIU, Migdonia GEORGESCU, Veturia CHIROIU, Ligia MUNTEANU
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- (28D) Ligia MUNTEANU, Veturia CHIROIU, Pier Paolo DELSANTO
On a system of torsional nanopendula.
- (29D) Valeria MOȘNEGUȚU, Veturia CHIROIU, Rodica IOAN
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- (30D) Florin FRUNZULICĂ, Marius STOIA-DJESKA, Ion FUIOREA
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- (32D) Horia PAVEN, Sandor POPOVICS
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- (33D) Horia PAVEN, Sandor POPOVICS
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- (34D) Marcel MIGDALOVICI, Tudor SIRETEANU, Emil Matei VIDEA
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- (35D) Carmen EISINGER BORCIA
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- (36D) Eugen CORDUNEANU, Adina RUSU
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- (37D) Eugen CORDUNEANU, Adina RUSU
Determination for the maximum amplitude of forced vibrations of an elastic system.
- (38D) Adina RUSU, Constantin FILIPESCU
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- (39D) Mărgărit BAUBEC, Aron IAROVICI
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(40D) Ionel DRAGOMIR, Nicușor DRĂGAN

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(41D) Bogdan LIFICIU, Nicușor DRĂGAN

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(42D) Radu D. RUGESCU

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(1R) Jan-Cristian GRIGORE, Nicolae PANDREA, Marina PANDREA

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(2R) Daniel-Octavian MELINTE

Control and Adjustment Methods for the Electric Parameters of Electric Arc Furnaces

(3R) Marius Sebastian RUSU

Simulation of input shaping vibrations suppression technique in the mechatronic systems

(4R) Mircea COPOȚ, Ioan LUNG, Alexandru MOLDOVANU

Main aspects on the design, production and use of nano-robots in medicine

(5R) Victor MOISE, Ion SIMIONESCU, Barbu GRECU, Ileana DUGĂEȘESCU

The kinematical synthesis of the bars mechanism, for curves approximation

(6R) Dorin BĂDOIU

The analysis of trajectories generation using a robot with five degrees of freedom

(7R) Ionel STAREȚU, Marius IONESCU

Modular design and command for a family of mechanical anthropomorphic grippers for robots

(8R) Radu I. MUNTEANU, G. TONT, A. GAL, O. MELINTE, V. VLĂDĂREANU

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- (9R) Boris Sergiu CONONOVICI, Wladimir RACOVITĂ
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- (10R) Alexandru VLADIANU, Gabriela VLADIANU
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- (11R) Liliana – Laura BĂDIȚĂ, Lucian CĂPITANU
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- (12R) Diana POPOVICI, Zachei PODEA, Lucian M. VELEA, Alida Lia M. VELEA
Weighing and Dosing Automatic Systems with PLC for Liquid and Powdery Materials
- (13R) Dana TILINA, Vlad Grigore LAȘCU, C-tin ISPAS, Vasile LEAHU
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- (14R) Iulian Sorin MUNTEANU, Petre MUNTEANU
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- (15R) Doina MARIN
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- (16R) Simion PAREPA
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- (17R) Simion PAREPA
Torsion testing of some devices with rectangular-key joints
- (18R) Zachei PODEA, Luige VLADAREANU, Lucian M. VELEA, Diana POPOVICI
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- (19R) A. IAROVICI, J.ONISORU, L. CAPITANU
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- (20R) Ion NIȚU, Cornel SECARĂ
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- (21R) Ovidiu Ilie ȘANDRU, Luige VLĂDĂREANU, Alexandra ȘANDRU
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- (22R) Ivan ILIUC and C-tin TIGANESTEANU
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Session 3 – Technical Acoustics

(1A) Lucian GRAMA, Marius S. RUSU

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(2A) George BALAN

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(3A) Vasile IGNAT

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(4A) Diana MILITARU and Inge GAVAT

The influence of acoustic models initialization methods on the results of speech recognition for Romanian language

(5A) Ovidiu RADU, Georgică SLĂMNOIU, Valerică ROȘCA, Elena CURCĂ, Dan VORNICU

Characteristics of the sound velocity profile in the Romanian shore area of the Black Sea

(6A) Nihan GUREL

Evaluation of the Acoustical Performance of Elementary Schools: An Example of An Elementary School in Istanbul

(7A) Vasile BACRIA, Nicolae HERISANU

Acoustical arrangement of the penetration zones in urban area

- (8A) Dan-Alexandru IORDACHE , Pier Paolo DELSANTO
Complex simulations of the acoustic pulses propagation and their associated numerical artifacts
- (9A) Gheorghe BARAN, Ioan MAGHETI, Carmen-Anca SAFTA, Mariana SAVU
Acoustic monitoring of the cavitation phenomenon in the industrial fittings
- (10A) Florin RĂSTOCEANU, Marilena LAZĂR
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- (11A) Alexandru VACAR, Alina BOGOI
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- (12A) Mihaela PICU
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- (13A) George BALAN
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- (14A) Constantin Daniel COMEAGĂ
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- (15A) Constantin Daniel COMEAGĂ
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- (16A) Inge GAVAT, Ovidiu GRIGORE, Marius COTESCU, Svetlana SEGARCEANU
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- (17A) Silviu IONESCU, Adina IONESCU
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- (18A) Nicolae ENESCU, Craita Daniela CARP-CIOCARDIA, Ioan MAGHETI
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- (19A) Elena BUCUR, Mihai BRATU, Andrei VASILE
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- (20A) Ana PICU
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- (21A) Mihai ZAPLAIC , Sorina ILIUTA, Toma ZAPLAIC
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- (22A) Dan. MIHAI
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- (23A) Silviu Nicolae PLATON
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- (24A) Gabriel OPREA
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- (25A) Ioan MAGHETI, Luminita VOICULESCU
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(26A) Mariana SAVU, Catalin George ION, Lucian IONESCU

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(27A) Ioana BUSUIOCEANU

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(28A) Adina IONESCU, Silviu IONESCU

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(29A) Ovidiu VASILE, Nicolae ENESCU

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(30A) Nicolaie ORĂȘANU, Lucian IONESCU

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(31A) Victor CROITORU, Mihnea MAGHETI, Adrian GRIGORE

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(32A) Nicolaie ORASANU

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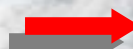
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Session 4 – Ultraacoustics

(1U) Luminita MORARU, Ana-Maria CHISELEV

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(2U) Gheorghe AMZA, Zoia APOSTOLESCU, Gabriel Dan TAȘCĂ

Contributions regarding finite element modeling of an ultrasonic transducer used in welding composite materials

(3U) Mihaela POPESCU

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(4U) Luminita MORARU, Mirela PRAISLER, Florica SZENDREI, Daniela DOMNISORU

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(5U) Cornelia LUCHIAN, Gheorghe AMZA, Dan NITOI, Florea DUMITRACHE

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(6U) Dan DOBROTĂ, Gabriel CHIRCULESCU

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- (7U) Gheorghe AMZA, Veronica ACHIM
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- (8U) Grigore Liviu ODOBESCU
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- (9U) Gheorghe AMZA, Zoia APOSTOLESCU, Mihai BALACEANU
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- (10U) Oana CHIVU
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- (11U) Gheorghe AMZA, Veronica ACHIM
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- (12U) Gheorghe AMZA, Oana CHIVU
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- (13U) Constantin RADU, Gheorghe AMZA, Cătălin Gheorghe AMZA
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- (14U) Gh. AMZA, Mihai ARSENE, Delicia ARSENE, Claudia BORDA, Marinela MARINESCU, Larisa BUTU
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- (15U) Luminita MORARU, Mariana Carmen NICOLAE, Laura ONOSE
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- (16U) Gheorghe AMZA, Simona VINTILA (MIHAIL)
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- (17U) Gheorghe AMZA, Simona VINTILA (MIHAIL)
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- (18U) Doru Virgil PĂUȘAN, Victor POPOVICI
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- (19U) Cristian RUGINA
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- (21U) Gh. AMZA, Mihai Alexandru BALACEANU, Gabriel Dan TASCA
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- (22U) Gheorghe AMZA, Veronica ACHIM
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