

ROMANIAN ACADEMY
Department of Technical Sciences

ACADEMY OF TECHNICAL SCIENCES



The Annual Symposium of the
Institute of Solid Mechanics

SISOM 2002

Bucharest

May 16-17, 2002

Session 1 →

Session 2 →

Organizing Committee →

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Sesiunea 1 – Dinamica Sistemelor, Medii Continue

(1D) ***Mircea MISICU***

“ Plane Waves in Nonlinear Elastic Layered Half-Space “

(2D) ***Dinu BRATOSIN, Tudor SIRETEANU***

“ A Nonlinear Kelvin-Voigt Model for Soils “

(3D) ***L. MUNTEANU, V. CHIROIU, Marco SCALERANDI***

“ On a Flexible Beam Actuated by SMA Wires ”

(4D) ***I. RUGINA, C. RUGINA***

“ Optimization of Mechanical Vibration Damping by Piezoceramic Devices “

(5D) ***Danut STANCIOIU, Tudor SIRETEANU, C.W. STAMMERS***

“ Driver Seat Semi-Active Vibration Control “

(6D) ***Marius GIUCLEA, Tudor SIRETEANU***

“ On the Stability of Fuzzy Semi-Active Control With Sequential Dry Friction “

(7D) Stefan RUSU, Tone IONESCU

“ L’Etude de la Linearité des Chaines de Mesure Non-Homogenes ”

(8D) Tone IONESCU, Gheorghe SOARE, Laurentiu RECE

“ Active Noise Reduction for Construction Equipments ”

(9D) Laurentiu RECE, Gheorghe SOARE, Tone IONESCU

“ Analysis Methods and Experimental Results to Acoustic Diagnosis of Industrial Noise “

(10D) St. DONESCU

“ On the inverse problems of the micropolar elastic moduli estimations. ”

(11D) Adina NEGREA, Aurel ALECU, Ioan MAGHETZI

“ Researches Concerning the Estimation of the Sound Characteristics of a Source in a Free Field and in a Semi-Reverberant Field “

(12D) V. ULMANU, G. LAZARESCU, I. POPA

“ Die-Marked Drill Pipe Fatigue Life Estimation Based on the Local Stress-Strain Concept ”

(13D) Gabriel OPREA

“ About Noise and Vibration Control of Railway Traffic in residential areas using composite damping materials ”

(14D) ***H. PAVEN, S. POPOVICS***

“ On Some Basic Rheodynamic Relationships Within the PTZ-Standard Linear Viscoelastic Solid Behaviour. I. Strain-Controlled Processes ”

(15D) ***H. PAVEN, S. POPOVICS***

“ On Some Basic Rheodynamic Relationships Within the PTZ-Standard Linear Viscoelastic Solid Behaviour. II. Stress-Controlled Processes “

(16D) ***M. MIGDALOVICI, Daniela BARAN***

“ About the Stability of Motion for Two Sprung Superposed Mases “

(17D) ***Mihai NICOLAE, Ioan RUGINA***

“ FFT Spectrum Analyzer “

(18D) ***Virgiliu MITRE***

“ Transducer for Measurement of Force-Strain Characteristics of Metallic Glass Strips “

(19D) ***Gabriel TEODORESCU, Stefan Funar***

“ Improving Tolerances in Flaw Sizing with Ultrasounds “

(20D) ***T. BADEA, E. BARONCEA***

“ Identification of the areas of higher strain energy in a thin vibrating plate ”

(21D) ***Ioana BUSUIOCEANU, Mariana SAVU, Ioan MAGHETZI***

“ Theoretical and Experimental Study of the Hand-Arm System Vibrations “

(22D) ***Liviu Grigore ODOBESCU, Cornel LALA***

“ The Comparative Study About Energetic Efficiency for Miscellaneous Types of Adaptation Schemes Generator-Piezoelectric Transducers ”

(23D) ***Al. ALBRECHT, M. MIGDALOVICI***

“ Aspects of Aeolian Vibrations Research for High-Voltage Overhead Electric Lines”

(24D) ***Liviu Grigore ODOBESCU, Cornel LALA***

“ Optic Method for Ultra-acoustic Power Estimation in the Case of Piezoelectric Transducers “

(25D) ***V. A. LASCU, A. NOVAC, Adriana MARASESCU***

“ Image objectification of eures modelling ”

(26D) ***Radu Dan RUGESCU***

“ Mechanical Oscilator Near Non-Isotropic Bodies”

(27D) ***Radu Dan RUGESCU***

“ A Planetary Non-Symmetrical Model ”

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Session 2 

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Sesiunea 2 – Robotica, mecatronica, tribologie

(1R) Gunter VOGELSANG, Luigi VLADAREANU, Lucian Marius VELEA

“ The Real Time Control by OPEN – CNC Complex Automation System of the Six Freedom Axes Mechanical Center ”

(2R) Boris Sergiu CONONOVICI

“ The Application of a Genetic Algorithm for a Two Link Pendulum Programmed Stimulation “

(3R) Amedeu ORANESCU, Elena MEREUTA, Viorel MUNTEANU

” L’Opportunité des Ordinateurs Spécialisés, Portables, Pour la Simulation du Mouvement des Structures des Rigides”

(4R) Dumitru MIHAI, Silviu MACUTA

“ The Influence of the Both Functioning Time and the Service Temperature on the Mechanic Characteristics and Metallographic Structure of Some Steels “

(5R) C. SPANU, C. GHEORGHIES, I. CRUDU

“ Structural Changes in the Superficial Layer During Passing from Elastic to Plastic Deformation “

(6R) ***Bogdan LEITOIU, Silviu MACUTA, Carmen MAFTEI***

“ On the Electrical Level Supply of the Strain Gauges Used for the Strain Measurements of the Insulator Material Samples “

(7R) ***Gabriel Sorin STROE***

“ Iterative Determination of the Law of Motion and State Parameters for Spatial Mechanisms with Redundant Mobilities “

(8R) ***George BALAN***

“ The Improvement of Machine-Tools Dynamic Behaviour with Adaptive Fuzzy Control Systems (7-th Part) “

(9R) ***Florin POPA, Bobe Cristina TUINEA, Mihai ARDELEANU***

“ Material Models Used in the Numerical Simulation of the Penetration “.

(10R) ***Victor CARP, P. UNGUR***

“ Experimental Research Concerning the Weldability of the Manganese Steels Type Hadfield “

(11R) ***V. A. LASCU, A. NOVAC***

“ Social aspects of the robotics impact ”

(12R) ***Doina MARIN, Vlad Grigore LASCU, Dan Mihail MARIN***

“ Machine Tools Turn to Linear Motors “

(13R) ***V. Gr. LASCU, C. M. NICOLESCU, Doina MARIN, V. CHIROIU, M. D. MARIN***

“ A Prehensive System for Robots and Machine Tools with Sensors. Part I “

(14R) ***Adrian OLARU***

“ Research the Dynamic Behaviour of the Industrial Robots in the Frecquency Domain ”

(15R) ***Adrian OLARU***

“ Some Aspects About Modeling and Simulation Dynamic Behaviour Servodriving Industrial Robots ”

(16R) ***Alexandru VLADIANU, Gabriela VLADIANU***

“ Dynamic Study of the Traveling Mechanism of the Digging and Transportation Machine with Hydrostatic Transmission During Digging “

(17R) ***Ion NITU, Daniel DINU***

“ Study of the Robot End-Effector Motion Along a Spline Curve “

(18R) ***Wladimir RACOVITA***

“ Influence of the Hidraulic Motor Viscous Damping on the Dynamic Behaviour of the Robot Axis Actuation System “

(19R) ***Ivan ILIUC***

“ About Some Particularities of the Tribological Behaviour of Ti_2N Layer on High Speed Steel Substrate “

(20R) ***A. IAROVICI, L. CAPITANU, J. ONISORU, M. BAUBEC, V. FLORESCU***

“ Stresses and Deformations Analysis For Hip Joint Prosthesis With Rolling Bodies. “

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Session 2 

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