

- Achenbach J.D.**, Balogun O. 21
SURFACE WAVES ON A HALF SPACE WITH DEPTH-DEPENDENT PROPERTIES
- Andrianov I.**, Danishevs'kyy V., Weichert D. 23
WAVES IN COMPOSITE MATERIALS: AN INTERPLAY BETWEEN NONLINEARITY AND DISPERSION
- Appelö D., **Hagstrom T.**, Jang Ch. Y. 25
HERMITE METHODS FOR ELASTIC WAVES
- Baffet D., Bielak J., **Givoli D.**, Hagstrom T., Rabinovich D. 27
HIGH-ORDER LONG-TIME STABLE ABSORBING BOUNDARY CONDITIONS FOR ELASTODYNAMICS
- Berezovski A.**, Engelbrecht J., Berezovski M. 29
INFLUENCE OF INTERNAL STRUCTURES ON WAVE DISPERSION IN SOLIDS
- Bramwell J.**, Demkowicz L. 31
A DISCONTINUOUS PETROV-GALERKIN METHOD FOR SEISMIC TOMOGRAPHY PROBLEMS
- Brasil R.M.L.R.F.** 33
MODE LOCALIZATION IN MODULAR TRUSSED STRUCTURES SUBJECT TO SLIGHTLY DISORDERED LOADING
- Bulant P.**, Klimeš L. 35
S-WAVE COUPLING IN HETEROGENEOUS ANISOTROPIC MEDIA
- Červ J.**, Plešek J. 37
INFLUENCE OF PRINCIPAL MATERIAL DIRECTIONS OF A THIN COMPOSITE STRUCTURE ON RAYLEIGH-EDGE WAVE VELOCITY

- Chaillat S.**, Bonnet M. 39
A NEW FAST MULTIPOLE METHOD FOR 3D ELASTODYNAMICS USING THE HALF-SPACE FUNDAMENTAL SOLUTIONS
- Cho S.S.**, Park K.C., Huh H. 41
A METHOD FOR COMPUTATION OF WAVE PROPAGATION: EXTENSION TO TWO AND THREE-DIMENSIONAL PROBLEMS
- Collet B.** 43
SURFACE AND INTERFACE WAVES IN PIEZOELECTRICS WITH SPATIAL DISPERSION
- Erofeyev V.I., **Malkhanov A.** 45
THE FORMATION OF NONLINEAR MAGNETOELASTIC WAVES
- Feireisl E.** 47
SPECTRAL MEASURES, DISPERSIVE ESTIMATES AND PROPAGATION OF ACOUSTIC WAVES IN INCOMPRESSIBLE LIMITS
- Fink M.** 49
SUBWAVELENGTH FOCUSING OF BROADBAND TIME-REVERSED WAVES
- Gabriel D.**, Kopačka J., Plešek J., Ulbin M. 51
APPLICATION OF EXPLICIT CONTACT-IMPACT ALGORITHM TO THE FINITE ELEMENT SOLUTION OF WAVE PROPAGATION PROBLEMS
- Georgiadis H.G.**, Gourgiotis P.A. 53
WAVES IN HALF-SPACES OF MICROSTRUCTURED MATERIALS CHARACTERIZED BY GRADIENT ELASTICITY
- Grinfeld M.** 55
OPERATIONAL EQUATIONS OF STATE FOR MODELLING SHOCK WAVES PHENOMENA IN SOLIDS

- Grote M.J.** 57
EXPLICIT LOCAL TIME-STEPPING METHODS FOR TRANSIENT WAVE PHENOMENA
- Hilton H.H.** 59
COUPLED THERMAL AND VISCOELASTIC 1-D WAVES
- Hirsch E.** 61
ELASTIC WAVES REVERBERATIONS AND ELASTIC LOAD IN LONG ROD PENETRATION
- Hora P., Červená O., Uhnáková A., **Machová A.** 63
STRESS WAVE RADIATION FROM BRITTLE CRACK EXTENSION BY MD AND FEM
- Huang S.J, **Dai H.H**, Chen Z., Kong D.X. 65
AN ANALYTICAL AND NUMERICAL STUDY ON IMPACT WAVES IN A NONLINEARLY ELASTIC COMPOSITE BAR
- Jansson T.**, Lundberg B. 67
DISSIPATION AND TRANSMISSION OF STRESS WAVE ENERGY AT A PERCUSSIVE DRILL ROD JOINT
- Khazaie S.**, Cottureau R., Clouteau D. 69
IDENTIFICATION OF A HETEROGENEOUS MATERIAL PROPERTY FIELD USING A TIME-REVERSAL APPROACH
- Klimeš L.** 71
SENSITIVITY GAUSSIAN PACKETS
- Kolman R.**, Plešek J., Okrouhlík M., Gabriel D., Kopačka J. 73
NUMERICAL SOLUTION OF ELASTIC WAVE PROPAGATION BY ISOGEOMETRIC ANALYSIS

- Krylov S., Lurie K.A., Ya'akovovitz A.** 75
STRUCTURES WITH TIME-DEPENDENT MOMENT OF INERTIA AND THEIR IMPLEMENTATION IN SENSORS, ACTUATORS AND DYNAMIC MATERIALS
- Lazar M.** 77
THE LIÉNARD-WIECHERT POTENTIALS AND RETARDED FIELDS IN ELASTODYNAMICS
- Le Guennec Y., Savin E., Clouteau D.** 79
DYNAMICS OF BEAM TRUSSES UNDER IMPULSE LOADS
- Leindl M., Oberaigner E. R.** 81
ANALYSIS OF ELASTIC WAVE PROPAGATION BY AN IMPROVED FINITE ELEMENT METHOD
- Lew A.J., Mata P.** 83
VARIATIONAL TIME INTEGRATORS FOR NONLINEAR THERMOELASTIC CONTINUA WITH HEAT CONDUCTION
- Lombardo M., Askes H.** 85
EFFICIENT FINITE ELEMENT IMPLEMENTATION OF CONTINUUM THEORIES WITH MICRO-INERTIA
- Lurie K.** 87
MATERIAL OPTIMIZATION IN DYNAMICS VIA MATERIAL STRUCTURES DISTRIBUTED IN SPACE-TIME
- Maugin G.A., Rousseau M.** 89
A DIFFERENT LOOK AT SAWs: QUASI-PARTICLE RE-INTERPRETATION
- Michelitsch T.M.** 91
ANALYSIS OF A SELF-SIMILAR LAPLACIAN IN n DIMENSIONS AND SOME APPLICATIONS TO WAVES PROPAGATION PROBLEMS

- Morsbøl J., Sorokin S.V.** 93
ANALYSIS OF WAVE PROPAGATION IN TOROIDAL SHELLS
- Nguyen Duc C.D., Lombardo M., Askes H.** 95
A GRADIENT ELASTICITY THEORY DERIVED FROM THE CONTINUALISATION OF A DISCRETE PERIODIC LATTICE STRUCTURE
- Nguyen Vu-Hieu, Naili S.** 97
ULTRASONIC WAVE PROPAGATION IN INHOMOGENEOUS ANISOTROPIC POROUS BONE LAYER
- Nielsen R.B., Sorokin S.V.** 99
THE WKB APPROXIMATION FOR WAVE PROPAGATION IN CORRUGATED AND SPATIALLY CURVED ELASTIC RODS
- Norris A.N., Shuvalov A.L., Kutsenko A.A.** 101
DYNAMIC EFFECTIVE MEDIUM THEORY FOR PERIODIC ACOUSTIC MEDIA
- Park K.C., Cho S.S, Huh H.** 103
A METHOD FOR COMPUTATION OF WAVE PROPAGATION: BASIC ALGORITHM DESCRIPTION
- Parnell W.J., Norris A.N.** 105
HYPERELASTIC CLOAKING THEORY
- Parubov A.V., Andrievsky B.R.** 107
NONLINEAR STRAIN WAVES IN BI-ATOMIC CRYSTALS
- Pšenčík I., bin Waheed U., Červený V.** 109
TWO-POINT PARAXIAL TRAVEL TIME APPROXIMATION

- Renno J.M.**, Mace B.R. 111
 WAVE BEHAVIOUR OF TRUSS-CORED STRUCTURES
 USING THE WAVE AND FINITE ELEMENT METHOD
- Rohan E.**, Mielke A. 113
 WAVE DISPERSION IN HOMOGENIZED PERIODIC DOUBLE POROUS
 FLUID SATURATED SOLIDS
- Saksala T.** 115
 NUMERICAL MODELLING OF DYNAMIC TESTING OF MATERIALS
 USING THE SPLIT HOPKINSON PRESSURE BAR DEVICE
- Salupere A.**, Tamm K. 117
 ON THE INFLUENCE OF MATERIAL PROPERTIES ON THE WAVE
 PROPAGATION IN MINDLIN-TYPE MICROSTRUCTURED SOLIDS
- Seiner H., Sedlák P., Janovská M., Bodnárová L., Zídek J., **Landa M.** 119
 LASER-BASED RESONANT ULTRASOUND SPECTROSCOPY FOR
 QUANTITATIVE EVALUATION OF ADVANCED MATERIALS
- Stoklasová P.**, Sedlák P., Seiner H., Zídek J., Landa M. 121
 PRECISE EVALUATION OF ELASTICITY FROM ULTRASONIC
 MEASUREMENTS
- Valsamos G.**, Casadei F., Solomos G. 123
 NUMERICAL SIMULATION OF WAVE DISPERSION CURVES
 IN CYLINDRICAL RODS BY EUROPLEXUS
- Ván P.** 125
 THERMODYNAMICS OF GENERALIZED MECHANICS – WAVE
 PROPAGATION AND GENERIC STABILITY
- Zakharov D.D.** 127
 FORMULATIONS OF NON-REFLECTING RADIATION CONDITIONS
 FOR THE TRANSVERSELY ISOTROPIC LAYERED STRIPS, CYLIN-
 DERS AND PLATES USING 3-D ORTHOGONALITY OF WAVES

Zaretsky E., Kanel G.

129

DECAY OF ELASTIC PRECURSOR WAVES IN PURE ALUMINUM
OVER 300 – 932 K TEMPERATURE RANGE

LIST of REGISTERED PARTICIPANTS

131

ABSTRACTS