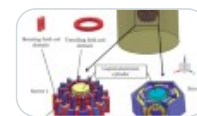




28 articles in this issue

Excitation of Liquid Metal Flow in the Warm Top of a Continuous Casting Machine Crystallizer by a Rotating Magnetic Field Inductor with Inclined Poles



OriginalPaper | 24 November 2025 | Pages: S1 - S8

Magnetic Field of a Ferrofluid Support Composed of Cylindrical Magnetic and Non-Magnetic Body Sequence



OriginalPaper | 24 November 2025 | Pages: S9 - S14

Magnetic Properties of Colloidal Magnetite Solutions Stabilized with a Double Layer of Surfactants in Water



OriginalPaper | 24 November 2025 | Pages: S15 - S20

Liquid Metal Flow Generated in a Cylindrical Cell by the Alternating Field of a Continuous or Sectioned Inductor



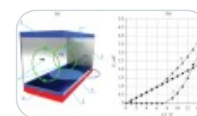
OriginalPaper | 24 November 2025 | Pages: S21 - S28

Disperse System Based on Magnetic Fluids in Inhomogeneous Magnetic Fields



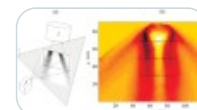
OriginalPaper | 24 November 2025 | Pages: S29 - S33

Heat Flow Measurements in Gas Mixtures of Air with Undecane or Water Vapor Exhibiting Phase Transitions



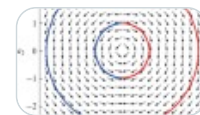
OriginalPaper | 24 November 2025 | Pages: S34 - S40

Effect of Time Delay in PIV Measurements in High-Speed Two-Phase Flows



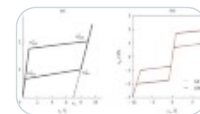
OriginalPaper | 24 November 2025 | Pages: S41 - S46

Quasi-Harmonic Longitudinal Wave Propagating in a Rod, the Deformation of the Material Thereof is Described by Neo-Hookean Potential



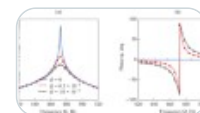
OriginalPaper | 24 November 2025 | Pages: S47 - S55

Numerical Simulation of Superelastic Dampers Using Beam Finite Elements



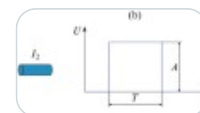
OriginalPaper | 24 November 2025 | Pages: S56 - S61

The Effect of Rayleigh Damping on the Efficiency of Passive Vibration Suppression Using Piezoelectric Elements



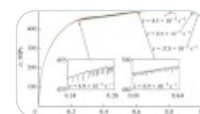
OriginalPaper | Open access | 24 November 2025 | Pages: S62 - S70

Assessment of the Applicability of a Linear Piezoceramic Actuator Model for Vibration Diagnostics of Large-Scale Structures



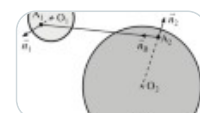
OriginalPaper | 24 November 2025 | Pages: S71 - S75

Critical Dynamics of Localized Shears in AMg6 Alloy



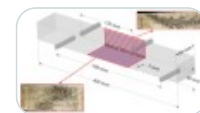
OriginalPaper | 24 November 2025 | Pages: S76 - S80

Analysis of the Features of Radiation from the Earth's Surface



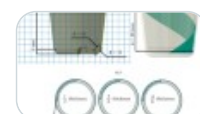
OriginalPaper | 24 November 2025 | Pages: S81 - S87

Strain Measurement in Heterogeneous Materials Using Distributed Fiber-Optic Sensors



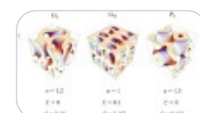
OriginalPaper | 24 November 2025 | Pages: S88 - S94

Multiscale Modeling of Damage Accumulation in a Conical Polymer Exoprosthesis Socket with Continuous Carbon Reinforcement

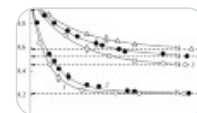


OriginalPaper | 24 November 2025 | Pages: S95 - S100

Mechanical Behavior of Polymer Scaffolds Under Compression: Multiscale Validation of a Numerical Model



Structural-Kinetic Model of Changes in Strength of Oriented Polymers during Radiation Induced Oxidative Aging



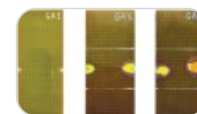
OriginalPaper | 24 November 2025 | Pages: S107 - S114

Influence of Filler Type on Dissipative Properties of Filled Elastomers (1D, 2D, 3D Particles)



OriginalPaper | 24 November 2025 | Pages: S115 - S119

Evaluation of Damage Accumulation in Fiberglass under Complex Loading Using Thermography and Ultrasonic Testing



OriginalPaper | 24 November 2025 | Pages: S120 - S126

Effect of Nozzle Diameter on Mechanical Properties of 3D-Printed ABS Monofilaments Reinforced with Short Fibers



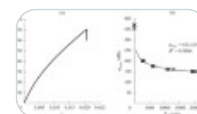
OriginalPaper | 24 November 2025 | Pages: S127 - S131

Time Characteristics of High-Speed Fracture of Composite Building Materials at High Temperatures



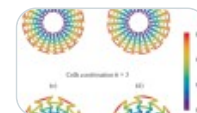
OriginalPaper | 24 November 2025 | Pages: S132 - S137

Residual Mechanical Characteristics of Glass Fibre Reinforced Polymer Composite after Preliminary Cyclic Loadings



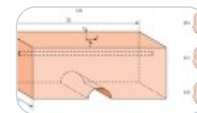
OriginalPaper | 24 November 2025 | Pages: S138 - S145

Mechanical Response of Ring Auxetic Structures under Thermomechanical Loading



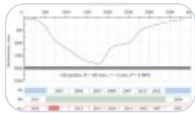
OriginalPaper | 24 November 2025 | Pages: S146 - S151

Numerical Analysis of the Relationship between the Strains of Buried Pipelines and Ground Surface



OriginalPaper | 24 November 2025 | Pages: S152 - S157

Monitoring of Underground Gas Mains in Mining Environments



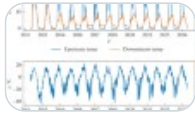
OriginalPaper | 24 November 2025 | Pages: S158 - S165

Analysis of Natural Frequencies of a Load-Bearing Reinforced Concrete Structure



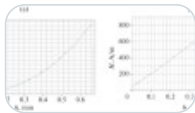
OriginalPaper | 24 November 2025 | Pages: S166 - S171

Calibration of Finite Element Models for Concrete Gravity Dam-Foundation Systems Using Historical Field Monitoring Data: Comparative Analysis with Statistical Approaches



OriginalPaper | 24 November 2025 | Pages: S172 - S177

Study of Current Density and Magnetic Field Strength Distributions in Single- and Multi-Frequency Coaxial Cables



OriginalPaper | 24 November 2025 | Pages: S178 - S181
