Contents

Vol. 25, No. 2, 2022

Plastic Flow as Spatiotemporal Structure Formation. Part I. Qualitative and Quantitative Patterns
L. B. Zuev and Yu. A. Khon 103

Plastic Flow as Spatiotemporal Structure Formation. Part II. Two-Level Description
Yu. A. Khon and L. B. Zuev 111

Effect of Projectile Rotation on High-Velocity Impact Fracture
P. A. Radchenko, S. P. Batuev, and A. V. Radchenko 119

Buckling Behavior of SWCNTs and MWCNTs Resting on Elastic Foundations Using an Optimization Technique
A. Timesli 129

Deformation and Fracture Mechanics of WC-(Fe-Mn-C) Composite in Axial Compression
I. N. Sevostyanova, T. Yu. Sablina, A. G. Burlachenko, and S. N. Kulkov 142

Discrete Element Study of Granule Consolidation
V. V. Krizhanovsky, V. I. Mali, and E. R. Pruuel 149

Metallurgical Characterization of Co-Cr-Mo Parts Processed by a Hybrid Manufacturing Technology
P. Ferro, A. Fabrizi, G. Savio, R. Meneghello, and F. Berto 155

Performance of Graphene and Diamond Nanoparticles on EMHD Peristaltic Flow Model with Entropy Generation Analysis
V. Sridhar and K. Ramesh 168

Mechanical Behavior and Physical Properties of Protein Microtubules in Living Cells Using the Nonlocal Beam Theory
A. M. S. Alhebshi, A. M. Metwally, K. S. Al-Basyouni, S. R. Mahmoud, H. M. Al-Solami, and A. S. Alwabli 181

Gravity Stresses and Block-Layer Structures in the Earth's Crust
E. B. Osipova 187