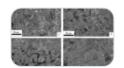


Volume 67, Issue 1-2 May 2025

19 articles in this issue

Influence of Cooling Rate on Formation of Structural and Textural States in Ferritic-Martensitic Stainless Steel with 12 wt.% Chromium



STRUCTURE AND PHASE TRANSFORMATIONS | 29 July 2025 | Pages: 1 - 9

Dilatometric Study of Bainitic Transformation in Advanced Engineering Steels



OriginalPaper | 31 July 2025 | Pages: 10 - 18

Thermal Stability of Retained Austenite in Isothermally Hardened Structural Steels



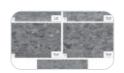
HEAT AND THERMOMECHANICAL TREATMENT | 29 July 2025 | Pages: 19 - 22

Effect of Thermochemical and Surface Mechanical Treatments on the Microstructure, Properties and Fatigue Resistance of Steel 20Kh (20Cr4)



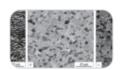
SURFACE IMPREGNATION AND SURFACE COATINGS | 28 July 2025 | Pages: 23 - 32

Effect of Hafnium Alloying on the Structure, Phase Composition and Properties of Cold-Deformed Biocompatible $Zr_{51-x}Ti_{31}Nb_{18}Hf_x$ (x = 2 - 10 At.%) Alloys Subjected to Annealing



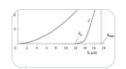
FUNCTIONALITY ALLOYS | 30 July 2025 | Pages: 33 - 41

Structure and Properties of Sheets from Heat-Resistant Titanium Alloy VT8



TITANIUM AND TITANIUM-BASE ALLOYS | 30 July 2025 | Pages: 42 - 47

<u>Determination of Macrohardness of Titanium Alloys of Different Classes by</u> Indentation by the Oliver and Pharr Method Under Low Loads



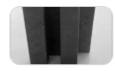
OriginalPaper | 29 July 2025 | Pages: 48 - 55

Application of Thermomechanical Treatment to Increase the Strength of Pressed Rods from Aluminum Alloy D16 (2024)



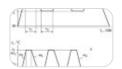
ALUMINUM AND ALUMINUM-BASE ALLOYS | 29 July 2025 | Pages: 56 - 64

Texture of Alloy Inconel 718 Obtained by Electron Beam Melting



ADDITIVE TECHNOLOGIES, POWDER AND COMPOSITE MATERIALS | 28 July 2025 | Pages: 65 - 69

Effect of Cyclic Annealing Mode on Microstructure and Hardness of Structural Steel 50KhFA



HEAT AND THERMOMECHANICAL TREATMENT | 30 July 2025 | Pages: 70 - 75

Effect of Heat Treatment on Microstructure and Mechanical Properties of High-Strength Steel XAR500



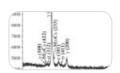
OriginalPaper | 31 July 2025 | Pages: 76 - 81

Effect of Concentration of Clad Graphite Particles on Tribological Properties of Cold-Sprayed Copper-Matrix Coatings



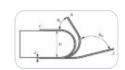
SURFACE IMPREGNATION AND SURFACE COATINGS | 30 July 2025 | Pages: 82 - 88

Phase Transformations in Low-Activation Chromium-Manganese Austenitic Steel under Long-Term Aging



STEELS FOR GENERAL ENGINEERING PURPOSES | 31 July 2025 | Pages: 89 - 98

Effect of Ageing Temperature on the Memory Properties of FeMnSiCrNiTi Alloys Deposited by Laser Directed Energy Deposition



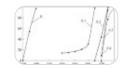
FUNCTIONALITY ALLOYS | 28 July 2025 | Pages: 99 - 105

Effect of Aging Treatment on Mechanical and Electrical Properties of AI – 0.35Cu – 0.18Sc – 0.06Zr Conductors for High-Performance Applications



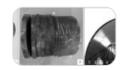
OriginalPaper | 29 July 2025 | Pages: 106 - 114

State-of-the-Art and Prospects of Application of Aluminum Alloys with Scandium in Russian Industry



ALUMINUM AND ALUMINUM-BASE ALLOYS | 28 July 2025 | Pages: 115 - 121

Study of the Structure and Properties of Billets from Alloy EP741NP Obtained by Hot Isostatic Pressing



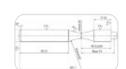
ADDITIVE TECHNOLOGIES, POWDER AND COMPOSITE MATERIALS | 29 July 2025 | Pages: 122 - 129

Evolution of the Phase Composition of High-Strength Laser Welded Joints of Aluminum-Lithium Alloys. 1. Features of the Structural and Phase Composition



WELDED JOINTS | 28 July 2025 | Pages: 130 - 140

Effect of Scale Factor on Cyclic Strength of Drill Pipes from Aluminum Alloy D16T and Steel of Strength Group G-105



TECHNICAL INFORMATION | 28 July 2025 | Pages: 141 - 146