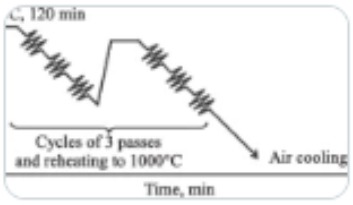
Volume 67, Issue 7-8

November 2025

23 articles in this issue

Effect of Thermomechanical Processing on the Microstructure and Mechanical Properties of a Medium Mn Steel Sheet with Nb Addition



J. L. Hernández-Rivera, M. O. Ramos Azpeitia ... A. Bedolla-Jacuinde

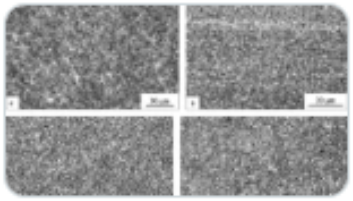
HEAT AND THERMOMECHANICAL TREATMENT | 14 February 2026 |
Pages: 435 – 443

Effect of Coherent Twin Boundary on High Temperature Creep Property of 321SS Without Titanium Stabilization Treatment

Gang Xu, Xiao Cheng ... Song Chen

MECHANISMS OF PLASTIC DEFORMATION AND FRACTURE |
21 February 2026 | Pages: 444 – 454

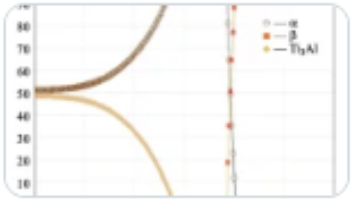
Review of Development of Domestic and Foreign Heat-Resistant Bearing Steels for Aircraft Engines and of Methods of their Heat Hardening. Part 1



T. M. Pugacheva

SPECIAL STEELS | 16 February 2026 | Pages: 455 – 461

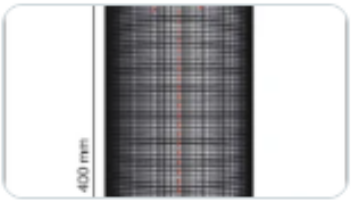
Effect of Alloying and Heat Treatment on Formation of Two-Phase ($\alpha + \alpha_2$) Structure in Titanium Pseudo-α-Alloys



A. A. Popov, N. G. Rossina ... E. N. Popova

TITANIUM AND TITANIUM-BASED ALLOYS | 13 February 2026 |
Pages: 462 – 466

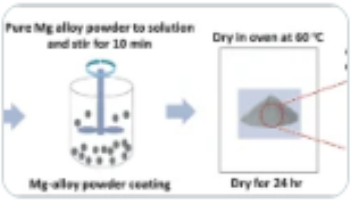
Effect of Crucible Diameter on the Microstructure of an Al – Si Alloy Prepared by Controlled Diffusion Solidification



Xuqiang Yang & Tijun Chen

OriginalPaper | 14 February 2026 | Pages: 568 – 578

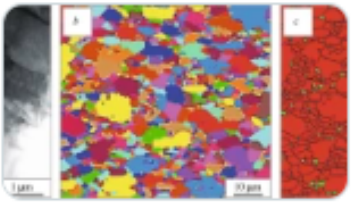
Design and Preparation of Magnesium Alloys with Controllable Biodegradation



Yi-Chia Lai, Wei-Zhi Huang ... Ren-Yu Chen

MAGNESIUM AND MAGNESIUM-BASE ALLOYS | 13 February 2026 | Pages: 579 – 586

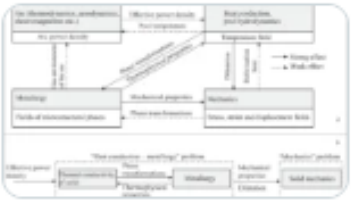
Simulation of the Thermal Cycle of Electron-Beam Welding of Alloy VT6 (Ti – 6Al – 4V) Obtained by Rolling and Selective Laser Melting. 2. Comparative Analysis of Microstructures and Phase Compositions



A. A. Yakhin & A. V. Panin

WELDED JOINTS | 13 February 2026 | Pages: 587 – 595

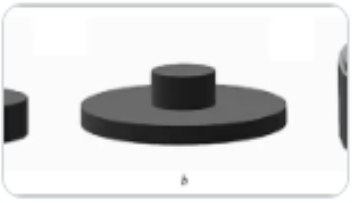
Effect of Phase Transformations on Thermal and Mechanical Processes in Welding of Low-Alloy Steel



M. K. Tishkov, Y. Aldaiee ... A. M. Levchenko

OriginalPaper | 20 February 2026 | Pages: 596 – 606

Effect of Friction Stir Spot Welding Process Parameters on the Quality of Aluminum Alloy Sheet Joints: Simulation and Experiment



A. A. Naumov, A. D. Mikulenko ... S. Yu. Kondrat'ev

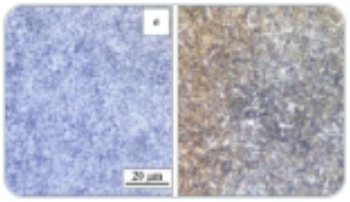
OriginalPaper | 16 February 2026 | Pages: 607 – 615

Effect of Interpass Temperature During Multipass Friction Stir Welding on Mechanical Properties of Age Hardened AA2024-T4 Aluminum Alloy Welded Joints

Sunil Kumar Yadav, Mohd Zaheer Khan Yusufzai ... D. K. Singh

OriginalPaper | 16 February 2026 | Pages: 616 – 622

Effect of Interrupted Quenching on the Microstructure, Mechanical Properties and Dislocation Density of Steel AISI 4340



Burak Nalcaci, Omer Cihad Aydin ... Volkan Kilicli

OriginalPaper | 09 February 2023 | Pages: 623 – 632