



Volume 126, Issue 5

May 2025

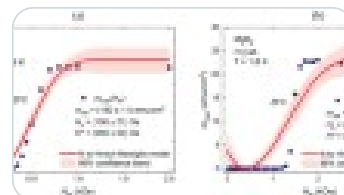


12 articles in this issue

Is MgB₂ a Superconductor? Comment on “Evidence against Superconductivity in Flux Trapping Experiments on Hydrides under High Pressure” [J. E. Hirsch and F. Marsiglio in J. Supercond. Novel Magn. **35, 3141 (2022)]**

E. F. TalantsevV. S. MinkovM. I. Erements

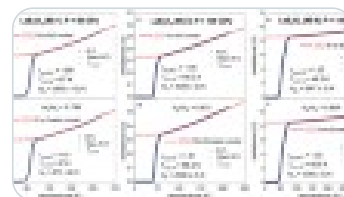
ELECTRICAL AND MAGNETIC PROPERTIES | 20 July 2025 | Pages: 489 - 492



Primary Superconducting Parameters of Highly Compressed Nonclathrate Ternary Hydride LaB₂H₈

E. F. Talantsev

ELECTRICAL AND MAGNETIC PROPERTIES | 20 July 2025 | Pages: 493 - 500



A Review on High-Entropy Alloys Synthesized via Powder Metallurgy Route

R. K. SainiU. PandelV. N. Nadakuduru

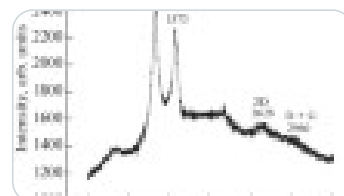
STRUCTURE, PHASE TRANSFORMATIONS, AND DIFFUSION | 20 July 2025 | Pages: 501 - 518



Effect of Graphene Nanoparticle Incorporation on Hard Anodizing Performance of Al–Cu–Mg Aluminum Alloy

N. TekkoukM. MakhoulS. Aguib

STRUCTURE, PHASE TRANSFORMATIONS, AND DIFFUSION | 20 July 2025 | Pages: 519 - 527



Corrosion Behavior of 0.06C Steel Sheets in Industrial Waters with Varying TDS Levels

A. InamM. A. HafeezM. Ishtiaq

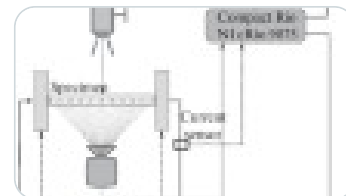
STRUCTURE, PHASE TRANSFORMATIONS, AND DIFFUSION | 20 July 2025 | Pages: 528 - 535



Effect of Joule Rapid Tempering Parameters on Microhardness in a Medium-Carbon and Low-Alloy Cr–Mo Steel

P. G. Díaz-VillaseñorO. Vázquez-GómezG. M. Chávez-Campos

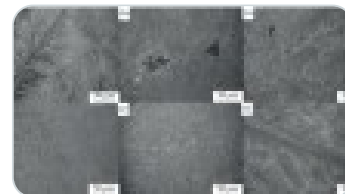
STRENGTH AND PLASTICITY | 20 July 2025 | Pages: 536 - 548



Study on Pseudo-Eutectic Region and Mechanical Properties of Pseudo-Eutectic Microstructure of Al–Si Alloys

Xiaotong LiJianhua WangXuping Su

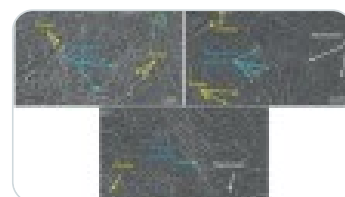
STRENGTH AND PLASTICITY | 20 July 2025 | Pages: 549 - 558



Effect of Partitioning Time on the Microstructure and Evolution of Medium Mn Q&P Steel

Can PengCainian JingJingrui Zhao

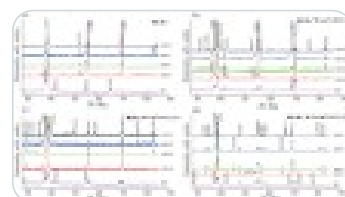
STRENGTH AND PLASTICITY | 20 July 2025 | Pages: 559 - 569



Aging Effect on the Microstructure and Creep Behavior of Dy-Doped Ti–Nb Alloys

Xiaokai MengWeiguo JiJincai Zhu

STRENGTH AND PLASTICITY | 20 July 2025 | Pages: 570 - 580



Microstructure-Based Creep Strain Modeling of Steel 316LN at 140–275 MPa/600–650°C

Nilesh KumarV. GanesanSurya D. Yadav

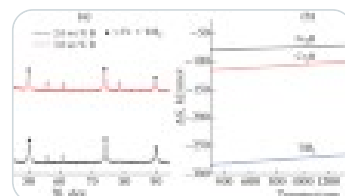
STRENGTH AND PLASTICITY | 20 July 2025 | Pages: 581 - 595



Influence of Ti Addition on the Microstructure and Mechanical Properties of High Boron Stainless Steels

Hui WangLei ChenTao Wang

STRENGTH AND PLASTICITY | 20 July 2025 | Pages: 596 - 602



The Effects of Fe–V–Nb–C–RE(Ce) Nanocrystalline Inoculants on the Microstructure and Properties of High-Speed Tool Steel

Wang LipingWang TiebaoLi Baoc

STRENGTH AND PLASTICITY | 20 July 2025 | Pages: 603 - 609

