

ISSN 1061-8309  
CODEN: RJNTE4

# RUSSIAN JOURNAL OF NONDESTRUCTIVE TESTING

Editor-in-Chief  
Vladimir N. Kostin

<https://pleiades.online>  
<https://link.springer.com>



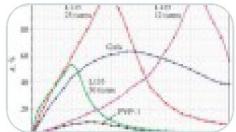
PLEIADES GROUP OF COMPANIES

Distributed by **SPRINGER NATURE**

Pleiades  
Publishing Group  
Over  
**50** years  
In the service of  
science and education

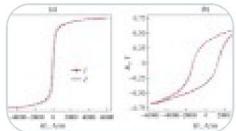
12 articles in this issue

## Eddy Current Measurements over a Wide Frequency Range



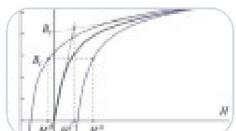
ELECTROMAGNETIC METHODS | 05 January 2026 | Pages: 1139 - 1147

# Application of the Jiles–Atherton Model of Magnetic Hysteresis to Analyzing the Spatial Distribution of Magnetic Fields and Induction in an Open-Loop Magnetic Circuit



ELECTROMAGNETIC METHODS | 05 January 2026 | Pages: 1148 - 1158

## **Comparison of the Sensitivity of Magnetic Parameters to Plastic Tension for 20GN and 08Kh15N5D2T Steels**



ELECTROMAGNETIC METHODS | 05 January 2026 | Pages: 1159 - 1166

## **Infrared Thermography of The Process of Surface Forest Fire Spread and Transition to Crown Fire**



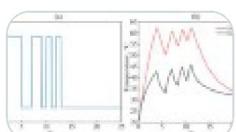
**THERMAL METHODS** | 05 January 2026 | Pages: 1167 - 1174

# Possibilities of Thermal Nondestructive Testing of Glass Fiber Reinforced Plastic Sucker Rods and Pump Compressor Pipes in the Oil Industry

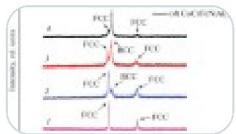


THERMAL METHODS | 05 January 2026 | Pages: 1175 - 1184

## **Detecting and Evaluating Defects in CFRP by using Barker Code Pulsed Thermal Wave Imaging**



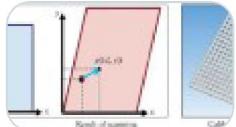
## Influence of Phase Composition and Homogenization Temperature on Magnetic Characteristics of High-Entropy Alloys of the CoCrFeNiAl<sub>x</sub> System



COMBINED APPLICATION OF NONDESTRUCTIVE TESTING METHODS | 05 January 2026 |

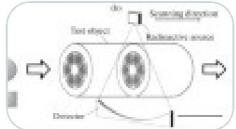
Pages: 1194 - 1203

## Geometrical Aberration Correction Method for Computer Radiography System Scanning Devices



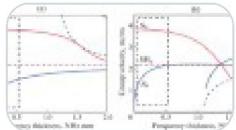
X-RAY METHODS | 05 January 2026 | Pages: 1204 - 1210

## Adaptive Wire Rope Breakage Detection in CT Images based on Template Matching and Optimization



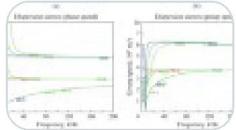
X-RAY METHODS | 05 January 2026 | Pages: 1211 - 1221

## Ultrasonic Spiral-Strip Waveguide with Distributed Temperature Sensors Designed for Measuring the Surface Temperatures



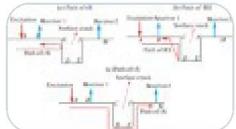
ACOUSTIC METHODS | 05 January 2026 | Pages: 1222 - 1234

## The Propagation Mechanism of Longitudinal Modes of Guided Waves in Pipelines



ACOUSTIC METHODS | 05 January 2026 | Pages: 1235 - 1260

## Laser Ultrasonic Wave Mode Conversion for Depth Quantification of Surface Cracks in Additive Manufacturing



ACOUSTIC METHODS | 05 January 2026 | Pages: 1261 - 1273