

# Contents

---

## MATERIALS

- Epoxy resins and low melting point alloy composites . . . . . 5  
J. Stabik, Ł. Wierzbicki (Poland)

## PROPERTIES

- Evolution of secondary phases in GX12CrMoVNbN9-1 cast steel after heat treatment . . . . . 12  
G. Golański (Poland)
- Low-cycle fatigue of P91 and P92 steels used in the power engineering industry . . . . . 19  
G. Junak, M. Cieśla (Poland)
- Thermal diffusivity measurements of selected fiber reinforced polymer composites  
using heat pulse method . . . . . 25  
G. Wróbel, S. Pawlak, G. Muzia (Poland)

## METHODOLOGY OF RESEARCH, ANALYSIS AND MODELLING

- Multi objective optimization of wear resistant TiAlN and TiN coatings deposited  
by PVD techniques . . . . . 33  
Ł. Szparaga, J. Ratajski, A. Zarychta (Poland)
- Reconstruction of thin films polyazomethine based on microscopic images . . . . . 40  
J. Wieszka, M. Szindler, A. Śliwa, B. Hajduk, J. Jurusik (Poland)

## MATERIALS MANUFACTURING AND PROCESSING

- Application of polymer-powder slurry for fabrication of abrasion resistant coatings  
on tool materials . . . . . 49  
G. Matula (Poland)

## EDUCATION AND RESEARCH TRENDS IN MATERIALS SCIENCE AND ENGINEERING

- Assuring quality of an e-learning project through the PDCA approach . . . . . 56  
T.A. Walasek, Z. Kucharczyk, D. Morawska-Walasek (Poland)
- Author index . . . . . 62
- Keywords index . . . . . 62
- Publisher's notice . . . . . 63
- Editor's notice . . . . . 64