

CONTENTS

Page

Research papers

<i>Arkady B. Finkelstein, Arseny Schaefer, Olga A. Chikova</i> Microstructures, mechanical properties ingot AlSi7Fe1 after blowing oxygen through melt	4
<i>Robin Gupta, Ashok Sharma, Upender Pandel, Lorenz Ratke</i> Coarsening kinetics in al alloy cast through rapid slurry formation (RSF) process	12
<i>Faiza Lourdjane, Mouhyddine Kadi-Hanifi, Azzeddine Abderrahmane Raho</i> Influence of traces addition of tin on the growth and on the coarsening of the guinier-preston zones in Al-10% at.Ag alloy	22
<i>Tran Bao Trung, Doan Dinh Phuong, Nguyen Van Luan, Rubanik Vasili Vasilievich, Shylin Aliaksandr Dmitrievich</i> Effect of ultrasonic-assisted compaction on density and hardness of Cu-CNT nanocomposites sintered by capsule-free hot isostatic pressing	30
<i>Elhadj Ghelloudj, Mohamed Tahar Hannachi, Hamid Djebaili</i> Effect of salt bath nitriding on surface roughness behaviour of AISI 4140 steel	45
<i>Andrea Di Schino, Paolo Emilio Di Nunzio</i> Niobium effect on base metal and heat affected zone microstructure of girth welded joints	55
<i>Andrea Di Schino, Paolo Emilio Di Nunzio</i> Metallurgical aspects related to contact fatigue phenomena in steels for back-up rolls	62

Technical paper

<i>Kelthoum Digheche, Zakaria Boumerzoug, Malika Diafi, Khawla Saadi</i> Influence of heat treatments on the microstructure of welded API X70 pipeline steel	72
<i>Andrey Tyagunov, Evgeny Baryshev, Gennady Tyagunov, Kseniya Shmakova, Vladimir Tsepelev</i> The influence on niobium and titanium on electrical resistivity in liquid state and solydification of IN718 alloy	79

Technical notes

<i>Alexander A. Shmatov, Lubomir Soos, Zdenko Krajny</i> New technology for hardening ready-made tools in aquaeous dispersed media	87
Rewievers in year 2016	93