

J. GAWAD, P. MACIOŁ, M. PIETRZYK [MULTISCALE MODELING OF MICROSTRUCTURE AND MACROSCOPIC PROPERTIES IN THIXOFORMING PROCESS USING CELLULAR AUTOMATION TECHNIQUE](#)

L. MADEJ, J. TALAMANTES-SILVA, I.C. HOWARD, M. PIETRZYK [MODELING OF THE INITIATION AND PROPAGATION OF THE SHEAR BAND USING THE COUPLED CAFE MODEL](#)

K. KOWALCZYK-GAJEWSKA, W. GAMBIN, R.B. PECHERSKI, J. OSTROWSKA-MACIEJEWSKA [MODELING OF MODELLING OF CRYSTALLOGRAPHIC DEVELOPMENT IN METALS ACCOUNTING FOR MICRO-SHEAR BANDS](#)

M. JANUS-MICHALSKA [EFFECTIVE MODELS DESCRIBING ELASTIC BEHAVIOUR OF CELLULAR MATERIALS](#)

J. KUSIAK, A. ZMUDZKI, A. DANIELEWSKA-TUŁECKA [OPTIMIZATION OF MATERIALS PROCESSING USING A HYBRID TECHNIQUE BASED ON ARTIFICIAL NEURAL NETWORKS](#)

P. KORDZIKOWSKI, M. JANUS-MICHALSKA, R.B. PECHERSKI [SPECIFICATION OF ENERGY-BASED CRITERION OF ELASTIC LIMIT STATES FOR CELLULAR MATERIALS](#)

M.S. SZCZERBA, A. PIATKOWSKI, P. PAŁKA, M. PEREK, T. TOKARSKI [TWIN-TWIN INTERACTIONS IN Cu-8%AT.AI SINGLE CRYSTALS DEFORMED AT 4.2K](#)

B. PAWŁOWSKA, R. SLIWA [THE INFLUENCE OF GEOMETRY EXTRUDATE CROSS-SECTION ON MECHANICS OF METAL FLOW IN EXTRUSION](#)

S.P. GADAJ, W.K. NOWACKI, E.A. PIECZYSKA, H. TOBUSHI [TEMPERATURE MEASUREMENT AS A NEW TECHNIQUE APPLIED TO THE PHASE TRANSFORMATION STUDY IN A TINI SHAPE MEMORY ALLOY SUBJECTED TO TENSION](#)

Z. PATER [THE ANALYSIS OF THE STATE OF STRAIN IN PARTS FORMED BY MEANS OF THE WEDGE-ROLLS ROLLING \(WRR\)](#)

M. ZACHMAN, W. PRZETAKIEWICZ, S. JÓZWIAK, Z. KOMOREK [STUDY OF SUPERPLASTIC PHENOMENON IN Fe₃Al INTERMETALLIC ALLOY](#)

G. MISHURIS, W. MISZURIS, R. SLIWA, S. ALEXANDROV [AN EFFECT OF THE YIELD CRITERION ON THE POSITION OF THE BI-MATERIAL INTERFACE IN PLANAR FLOW OF THREE-LAYER MATERIAL THROUGH A WEDGE-SHAPE CHANNEL](#)

J. FALKUS, J. LAMUT [MODEL TESTING OF THE BATH FLOW THROUGH THE TUNDISH OF THE CONTINUOUS CASTING MACHINE](#)

A. PAWŁOWSKI, T. CZEPE, L. GÓRSKI, W. BALIGA [STRUCTURE CHANGES OF THE PLASMA SPRAYED Al₂O₃-TiO₂ LAYER AND ITS ADHESION TO THE SUBSTRATE AFTER THERMAL SHOCK](#)

E. HADASIK [METHODOLOGY FOR DETERMINATION OF THE TECHNOLOGICAL PLASTICITY CHARACTERISTICS BY HOT TORSION TEST](#)

P.H. GERBER, J. TARASIUK, R. CHIRON, B. BACROIX [ESTIMATION OF THE RECRYSTALLIZED VOLUME FRACTION FROM LOCAL MISORIENTATION CALCULATIONS](#)

J. SŁANIA [INFLUENCE OF PHASE TRANSFORMATIONS IN THE TEMPERATURE](#)

RANGERS OF 1250-1000 C AND 650-350 C ON THE PERRITE CONTENT IN AUSTENITIC WELDS MADE WITH T 23 12 LRM3 TUBULAR ELECTRODE

M. DZIARMAGOWSKI POSSIBILITIES OF CONVERTER SLAG UTILIZATION

A. STOKŁOSA, B. LASKOWSKA COHESION ENERGY, METALLIC RADIUS AND BONDING ENERGY OF ELECTRONS IN THE IONIC CORE OF METAL ATOMS