

## Journal

of Achievements in Materials and Manufacturing Engineering

VOLUME 27 ISSUE 1 March 2008

## **Keywords index**

Al structure	23	Materials	7-39
Al-Si-Cu	23	Mechanical properties	31, 79, 87
Aluminium	95	Metallic alloys	15, 23, 27, 31
Aluminium sheet metal	83	Methodology of research	51
Analysis and modelling	55-71	Microstructure	15, 27, 31
, c		Monte Carlo	59
Barium ferrite	51		
Barkhausen method	47	Nanocomposites	35
BBC2003	63	Nanofibers	35
Bone	71	Nanomaterials	35
		Non-conventional injection moulding	19
Cannon	59	Non-destructive testing	43, 47
Carbon coatings	35	Numerical analysis	63
Casting	95	Numerical techniques	59, 71
Composites	99		
Compression test	27	Pedestrian safety	67
Conductometry	43	Plasma nitriding	87
Corrosion	15	Plastic forming	27, 91
Crack	59	Polycarbonate	19
		Polymer composite	7
<b>D</b> egradation	7	Polymeric Gradient Materials (PGMs)	39
Dental implant	71	Polypropylene	19
Design methodology	67	Powder metallurgy	99
Diagnostics	7	Pressure infiltration	99
		Properties	43,47
Eddy currents	43	Pulse MIG (Metal Inert Gas) welding	83
Electrical and tribological properties	39		
Electromagnetic field	95	Rapid prototyping	55
Engineering design	55, 91	Residual stress	47
Engineering polymers	19	Reverse engineering	55
		R-VSM	51
<b>F</b> atigue	59		
FEM	71, 91	SCORIM	19
Flaw detection	43	Simulation methodology	67
		Slitting passes	91
GA	63	Stochastic optimization	63
Gravity casting	39	Strip slitting	91
		Surface reconstruction	55
Heat transfer	7	Surface treatment	75
High-energy ball milling	51		
		Thermovision	7
Impactors' modelling	67	Thick-walled	59
Inoculation	95	Thin&thick coatings	79, 87
Life	59	Wear resistance	87
		Welding	75, 83
Manufacturing and processing	75-99		
Maraging steels	31	<b>X</b> -ray phase analysis	51