



## Keywords index

Alphinising	437	Melting temperature	405
Aluminium	397, 409, 437	Metal matrix composite	441
Austenite	421	Metallic alloys	397
Casting	401, 437, 425, 441	Methodology of research, analysis and modelling	417, 421
Centrifugal casting process	441	Microstructure	421
CFD simulations	441	MMA	433
Commercial pure aluminium	417	Modelling of microstructure	421
Composite reinforces concrete	433	Nanomaterials	409
Composites	401, 425	Non-destructive testing	413
Computational mechanics	417	Numerical techniques	421
Computer simulation	425	Plastic forming	429
Crystallization temperature	405	Polymer structure	429
Engineering polymers	405, 413	Porthole die	397
Extrusion	397	Properties	405, 413
Glass carbon particles	401	Seam weld	397
Grey cast iron	437	Severe plastic deformation	409
GTA welding	417	Silicon carbide	401
High power diode laser HPDL	389	Silumins	437
Hot work alloy tool steel	389	Solidification analysis	401
Injection moulding	429	Structure	405
Insert plate	433	Surface treatment	389
Laser alloying and remelting	389	Surfacing alloy layer	425
Layered castings	437	Transmission Electron Microscopy	409
Materials	397-413	Transport phenomena	417
Materials manufacturing and processing	425-441	Welding	433
Mechanical properties	413	Welding chamber	397
		X-ray microanalysis	437