

## Author Index

- Agarwala R C  
Electroless alloy/composite coating: A review 475
- Agarwala V  
*see* Agarwala R C 475
- Albert S K  
Influence of alloying on hydrogen-assisted cracking and diffusible hydrogen content in Cr–Mo steel welds 383  
*see* Bhaduri A K 395
- Babu Rao C  
Study of engineering surfaces using laser-scattering techniques 739
- Bahadur D  
Biomaterials and magnetism 639
- Balaselvi J  
*see* Bharathi A 263
- Baldev Raj  
Summary 5  
*see* Mudali U K 601  
*see* Babu Rao C 739  
*see* Venugopal S 833
- Baligheid R G  
*see* Gogia A K 677
- Banerjee D  
*see* Gogia A K 677
- Banerjee S  
*In-situ* studies on phase transformations under electron irradiation in a high voltage microscope 799
- Basu D  
Fatigue behaviour of fine grained alumina hip-joint heads under normal walking conditions 589
- Basu J  
Bulk metallic glasses: A new class of engineering materials 783
- Bauer C E  
A comparative machining study of diamond-coated tools made by plasma torch, microwave and hot filament techniques 933
- Bauer W  
*see* Knitter R 307
- Benyoucef M  
Dynamics of micromechanisms controlling the mechanical behaviour of industrial single crystal alloys 129
- Bhaduri A K  
Recent trends in repair and refurbishing of steam turbine components 395  
*see* Rodinquez 409
- Bhanu Sankar Rao K  
Summary 5  
High temperature fatigue behaviour of inter-metallics 695
- Bharathi A  
Superconductivity in MgB<sub>2</sub>: Phonon modes and influence of carbon doping 263
- Bhuvaneshwar G S  
*see* Nair Kalyani 575
- Boubker B  
*see* Bouyoucef M 129
- Cahn R N  
Freedom and fashion in materials science and engineering 17
- Cahn R W  
Freedom and fashion in material science and engineering 17
- Chaddah P  
Critical current densities in superconducting materials 273
- Chadha T K  
*see* Rajnesh Kumar 975
- Chakravorty D  
*see* Pal M 283
- Chaudhari A  
Effect of deformation and dielectric filling on electromagnetic propagation through waveguide 1011
- Christ H-J  
Thermomechanical fatigue – Damage mechanisms and mechanism-based life prediction methods 147  
Effect of hydrogen on mechanical properties of  $\beta$ -titanium alloys 453
- Clément N  
*see* Benyoucef M 129

- Coujou A  
*see* Benyoucef M 129
- Czyska-Filemonowicz A  
*see* Ennis P J 709
- Datta M K  
*see* Murty B S 23
- Davis D W  
 Machining and metrology systems for free-form laser printer mirrors 925
- Dayal R K  
 Hydrogen embrittlement in power plants 431
- Decker M  
*see* Christ H-J 453
- Dey G K  
 Physical metallurgy of nickel aluminides 247
- Divakar R  
 Characterisation in interfaces in nanocrystalline palladium 47
- Eifler D  
*see* Nebel Th 187
- Eswara Prasad N  
 Mechanical behaviour of aluminum–lithium alloys 209
- Ennis P J  
 Recent advances in creep-resistant steels for power plant applications 709
- Fang F Z  
 Micro-machining of optical glasses – A review of diamond-cutting glasses 945
- Fatima K  
*see* M Rahman 957
- Foct J  
 Future development and applications of nitrogen-bearing steels and stainless steels 731
- Gajdos K J  
 Changes in polymer foils used in food packaging tested by using DSC 991
- Gill T P S  
*see* Shankar V 359  
*see* Albert S K 383
- Giri J  
*see* Bahadur D 639
- Gogia A K  
 Toughening and creep in multiphase intermetallics through microstructural control 677
- Gokhale A A  
*see* Eswara Prasad N 209
- Gietzelt T  
*see* Piotter V 299
- Hariharan Y  
*see* Bharathi A 263
- Hitchiner M P  
*see* Jackson M J 897
- Ilchner B  
 Teaching materials science and engineering 859
- Inspektor A  
*see* Bauer C E 933
- Izman S  
*see* Venkatesh V C 915
- Jackson M J  
 Controlled wear of vitrified abrasive materials for precision grinding applications 897
- Johri P  
*see* Tarafder S 167
- Jung A  
*see* Christ H -J 147
- Kamaraj M  
 Rafting in single crystal nickel-base superalloys – An overview 115
- Knitter R  
 Ceramic microfabrication by rapid prototyping process chains 307
- Konneh M  
*see* Venkatesh V C 915
- Kumar A S  
*see* Rahman M 957
- Kumar R  
 Plane strain problem in microstretch elastic solid 975
- Kumar V  
 Computational materials science: The emergence of predictive capabilities of material behaviour 815
- Lee L C  
*see* Fang F Z 945
- Lim H S  
*see* M Rahman 957
- Liu X D  
*see* Fang F Z 945
- Maier H J  
*see* Christ H -J 147
- Majumdar J D  
 Laser processing of materials 495

Manna I		Pabi S K	
<i>see</i> Majumdar J D	495	<i>see</i> Murty B S	23
Mannan S L		Padmanabhan K A	
<i>see</i> Shankar V	359	Thermally assisted deformation of structural superplastics and nanostructured material: A personal perspective	97
Manocha L M		Pal M	
High performance carbon-carbon composite	349	Nanocrystalline magnetic alloys and ceramics	283
Manocha S M		Parvathavarthini N	
Porous carbons	335	<i>see</i> Albert S K	383
Masaki T		<i>see</i> Dayal R K	431
<i>see</i> Davis D W	925	Patil P B	
Merchant M E		<i>see</i> Shinde G N	1019
Twentieth Century evolution of machining in the United States – An interpretative review	867	Pettinari-Sturmel F	
Merz L		<i>see</i> Benyoucef M	129
<i>see</i> Piotter V	299	Piotter V	
Mills B		Micro powder-injection moulding of metals and ceramics	299
<i>see</i> Jackson M J	897	Pratihari D K	
Mirkute P R		Evolutionary robotics – A review	999
<i>see</i> Shinde G N	1019	Prüßner K	
Mon T T		<i>see</i> Christ H -J	453
<i>see</i> Venkatesh V C	897	Raghunathan V S	
Mudali U K		<i>see</i> Divakar R	47
Corrosion of bio implants	601	Rahman M	
Muraleedharan C V		Nano finish grinding of brittle materials using electrolytic in-process dressing (ELID) technique	957
<i>see</i> Nair Kalyani	575	Raujol S	
Murali S		<i>see</i> Benyoucef M	129
<i>see</i> Nagabhushan S	1037	Rama Rao P	
Murty B S		<i>see</i> Eswara Prasad N	209
Structure and thermal stability of nanocrystalline materials	23	Ramachandra Rao P	
Mythili R		Biomimetics	657
<i>see</i> Vijayalakshmi M	763	Ramanujan R V	
Nagabhushan P		Nanostructured electronic and magnetic materials	81
Recognition of Pitman shorthand text using tangent feature values at word level	1037	Ramasubbu V	
Naidu V P S		<i>see</i> Albert S K	383
Time-variant power spectral analysis of heart rate time series by autoregressive moving average (ARMA) method	1027	Ranganath V R	
Nair Kalyani		<i>see</i> Tarafder S	167
Developments in mechanical heart valve prosthesis	575	Ranganathan S	
Nebel Th		<i>see</i> Bajju J	783
Cyclic deformation behaviour of austenitic steels at ambient and elevated temperatures	187	Ray S K	
		<i>see</i> Bhaduri A K	395
		<i>see</i> Rodriguez P	409
		Reddy M R S	
		<i>see</i> Naidu V P S	1027
Oles E J		Rodriquez P	
<i>see</i> Bauer C E	933	<i>see</i> Bhaduri A K	395

- Optimisation of post-weld heat treatment – A simple, practical method 409
- Saroja S  
*see* Vijayalakshmi M 763
- Senemmar A  
*see* Christ H -J 453
- Shankar V  
 Solidification cracking in austenitic stainless steel welds 359
- Sharif S  
*see* Venkatesh V C 915
- Shaw M C  
 The size effect in metal cutting 875
- Shinde G N  
 A third order active-R filter with feedforward input signal 1019
- Singh A  
 Melting behaviour of lead and bismuth nanoparticle in quasicrystalline matrix – The role of interfaces 63
- Singh R  
*see* Rajneesh Kumar 975
- Singh Raman R K  
 Interplay of microbiological corrosion and alloy microstructure in stress corrosion cracking of weldments of advanced stainless steels 467
- Siva Prasad S  
*see* Tarafder S 167
- Sridhar T M  
*see* Mudali U K 601
- Sundar C S  
*see* Bharathi A 263
- Sundaresan S  
*see* Shankar V 359
- Surappa M K  
 Aluminium matrix composites: Challenges and opportunities 319
- Takahashi M  
*see* Davis D W 925
- Tarafder S  
 Ductile fracture behaviour of primary transport piping material of nuclear reactors 167
- Teteruk R  
*see* Christ H -J 147
- Tsai A P  
*see* Singh A 63
- Venkatesh V C  
 Ductile streaks in precision grinding of hard and brittle materials 915
- Venugopal S  
 A holistic approach to thermomechanical processing of alloys 833
- Vijayalakshmi M  
 Convergent beam electron diffraction – A novel technique for material characterisation at sub-microscopic levels 763
- Walter M  
*see* Davis D W 925
- William D F  
 Biomaterials and tissue engineering in reconstructive surgery 563