

Table of Contents

High Performance Materials by Rapid Solidification Processing S.K. Das	1
Microstructural Development in Drop-Tube Processed Al-8wt.%Fe R.F. Cochrane, S.B. Newcomb, P.V. Evans and A.L. Greer	21
Microstructure of Iron Containing Aluminium Alloys T. Turmezey, V. Stefániay and A. Griger	43
Rapid Solidification of Cast Iron - Some New Observations N.K. Das, C.S. Sivaramakrishnan and O.N. Mohanty	65
Extension of Solid Solution in Rapidly Solidified Binary Alloys K. Chattopadhyay and K. Raviprasad	83
Microstructural Features in RS Al-Fe-Misch Metal and Al-Mn-Misch Metal Alloys C.S. Sivaramakrishnan, K. Lal and R.K. Mahanti	99
Rapidly Solidified Copper-Rich Microcrystalline Alloys K. Murali Gopalan, V. Gopinathan and A.N. Tiwari	117
Rapid Solidification of Some Nickel Based Alloys G.K. Dey	133
Role of Boron in Fe- and Ni-Based Rapidly Solidified Microcrystalline Alloys P.K. Shrivastava, A.N. Tiwari and V. Gopinathan	143
Magnetic and Structural Studies of Rapidly Solidified Fe-Mn-Si-B and Fe-Al-Si-B Alloys V. Rao, S. Pramanik and C.R. Tewari	163
Structural Relaxation in Metallic Glasses A. van den Beukel	177
Hysteresis Study of Annealed $\text{Fe}_{78}\text{B}_{13}\text{Si}_9$ and $\text{Fe}_{79}\text{B}_{16}\text{Si}_5$ G.V.S. Murthy and S.B. Raju	193
Glass Formation and Crystallization in Some Zr Based Binary and Ternary Alloys G.K. Dey, R.T. Savalia, E.G. Baburaj and S. Banerjee	201
Magnetic and other Properties of Heavy Rare Earth-Cobalt-Boron Amorphous Alloys B. Idzikowski, A. Wrzeciono and P. Czarnecki	217
Comparison of Crystalline Phases Present in Alloy Ingots, Partially Crystalline Alloys & Crystallization Products of Amorphous Alloys E.G. Baburaj, G.K. Dey, M.D. Vora, G.E. Prasad, T. Raghu and M.J. Patni	233
Relaxation Phenomenon in Metallic Glasses G.P. Tiwari, G.L. Goswami and S.K. Jha	245
Characteristics of an Al-7Fe-2Mo Alloy Prepared from RS Powders A.J.S. Chowdhury and T. Sheppard	263
Tribological Behaviour of Rapidly Solidified and Processed Al-Si Base Alloys R. Dasgupta, S.K. Bose and R.V. Kumar	277
Property Improvements in Rapidly Solidified Aluminium-Manganese Alloys S.K. Bose, R.G. Ganguly, A.N. Sinha, P.K. De and N.K. Das	287
Microstructural and Compositional Effects on the Fracture Toughness of Four RS Aluminum Alloys H.G.F. Wilsdorf, J.K. Briggs and L.M. Angers	299
On the Properties of Al-Li-Cr and Al-Li-Zr Rapidly Solidified Powder Alloys H.B. McShane, M.S. Mahmoud and T. Sheppard	319
Development of Light Alloys through Rapid Solidification Processing C. Suryanarayana, F.H. Froes, S. Krishnamurthy and Y.W. Kim	343
Applications of Rapidly Solidified High Temperature Aluminum Alloys S.K. Das, P.S. Gilman and D. Raybould	367
Laser Surface Hardening of Steel G. Babu Viswanathan and R. Sivakumar	393
Cobalt Based Metallic Glasses for Recording Head Applications G. Balasubramanian, A.N. Tiwari and C.M. Srivastava	413