Light Metals: Science and Technology

Table of Contents

Preface	
Trends of Technological Developments in Alumina Production and Some Hungarian Results K. Solymar	1
Reduction of Power Consumption in the Aluminium Electrolytic Pots Designed in the Forties	
O.S. Chaudhry	17
Processing and Applications of Red Muds P.M. Prasad, J.S. Kachhawaha, R.C. Gupta, T.R. Mankhand and J.M. Sharma	31
New Horizons in Aluminium Powder Metallurgy A. Bose	53
Rapid Solidification and Metastable Equilibria in Light Metals P.H. Shingu	77
High-Strength Aluminium Alloys through Rapid Solidification Processing C. Suryanarayana, P. Ramachandrarao and T.R. Anantharaman	85
Some Less Understood Aspects of Strengthening in Aluminium Alloys K.I. Vasu	109
Aluminium Alloy Conductors R. Kumar	127
Aluminium Alloys as Plain Bearing Materials - An Overview S.N. Tiwari, J.P. Pathak and S.L. Malhotra	139
Influence of Strontium on Solidification of Aluminium-Silicon Alloys M.M. Haque and V. Kondic	159
Extractive Metallurgy of Titanium in India C. Sridhar Rao and R.B. Subramanyam	171
Effect of Heat Treatment on Microstructure and Mechanical Properties of Titanium Alloy IMI685	
V. Singh and C. Ramachandra	185
Environment/Mechanical Interaction Processes and Hydrogen Embrittlement of Titanium P.K. Datta, K.N. Strafford and A.L. Dowson	203
Pilot Plant Experiments on an Improved Electrolytic Cell for Magnesium Metal Production P.S. Desikan	217
The Development and Use of Magnesium Alloys in UK Magnox Reactors J.E. Harris	225
Pilot Plant Production of Beryllium Metal and Copper-Beryllium Alloys C.V. Sundaram, C.M. Paul, B.P. Sharma, J.S. Nair and S. Saha	251