

VOLUME 3. ALUMINA AND ALUMINUM

C O N T E N T S

BARILLON,E.

"Avantages et inconvénients au niveau de l'  
électrolyse et de l'épuration des gaz de  
cuves, des divers types d' alumine BAYER" ..... 1

BRIME,C. SANCHO,J.P. and VERDEJA,F.

"Possible Utilization of some Spanish  
Tertiary Clays as Alumina Ore" ..... 18

COCCO,A. COLUSSI,I. and MERIANI,S.

"Potential exploitation of Leucite-Bearing  
rocks for Alumina extraction - A Laboratory  
Approach" ..... 31

COSOVIĆ,B. VRACAR,R. DRAKIĆ,M. and DRAGOVIĆ,V.

"L'Influence de la Chaux sur les Index du  
Lessivage de la Bauxite de Bemite" ..... 44

ECONOMOU,D. and KASDAS,S.

"Alimentation des Cuves d'Electrolyse au  
Moyen de Ponts Roulants Automatiques" ..... 57

GRZYMEK.J.

"Fabrication liée d'oxyde d'aluminium et de  
ciment à partir de matières à faible teneur  
d'aluminium par la méthode de J.GRZYMEK" ..... 74

HAMER,C.A. QUON,D.H.H. and WINER,A.A.

"Extraction of Alumina from Canadian non-  
Bauxite Materials" ..... 96

HERRMANN,E.

"Calculation of Na<sub>2</sub>O Losses Incurred on the  
Alkaline Digestion of Bauxite" ..... 108

HUANG,WEN H.

"New Extraction Technique for Alumina from  
Coal Ash" ..... 117

ILÍĆ,R. PODGORNIK,A. and NAJZER,M.

"Grain Refinement of Aluminium with  
Titanium and Boron" ..... 126

IVEKOVIC,H, JANEKOVIĆ,A. and TUDA,M.	
"The Influence of Chelating Organic Solvents on Aluminum Hydroxides and Oxyhydroxides" .....	139
JELACIĆ,ĆIRILO and ZIVKO ANDRIĆ	
"Comportement du Vanadium au cours du Traitement de la Bauxite dans le Combinat de l'Aluminium de Titograd, et Possibilité de sa Récupération" .....	154
KATCHALOVA,L.	
"Transition of Bayerite to Alpha Alumina under Mechanical Effects" .....	158
KONTOPOULOS,A. CHRYSOULAKIS,J. VASSILIOU,P. MARINOS-KOURIS,D. and VRETTOU,P.	
"Physical, Chemical and Mineralogical Characteristics of the Grecian Red Mud" .....	168
KORCSMÁROS, IVÁN.	
"Computerized evaluation of the operation mechanism of digester - lines in alumina plants by mathematical modelling" .....	189
LAHODNY-ŠARC,O. DRAGCEVIC,Z. and DOSEN-SVER,D.	
"The Influence of Temperature on the Structural Evolution of Aluminium Hydroxide Gels" .....	206
LI-KUAN CHI, YU-CHANG LUO, and SI-MING YANG	
"The removing of Sulfur compounds in the Soda-Lime Sintering Process for the production of Alumina" .....	221
LOGOMERAC,V.G. CRNKO,J.J. and LENHARD,Z.M.	
"The obtaining of Zirconium from Red Mud and Bauxite during the complex processing" ....	239
MAGRONE,R. BODARD,Y. and JEAN,R.	
"Analyse Automatique des Liqueurs Bayer" .....	252
MILLET, JEAN-PIERRE and ROLIN, MAURICE	
"L'Electrolyse de L'Alumine dans la Cryolithe Fondue: Etude du Mecanisme de Decharge Anodique a l' Aide de l'Electrode a Disque Tournant" .....	256

PAVLOVIĆ, Lj. IZVONAR, D. TECILAZIĆ-STEVANOVIC, M. and JANAČKOVIĆ, T.	
"Effects of Milling on Physical and Chemical Properties of $\alpha$ - $Al_2O_3$ Produced in Yugoslavia" ...	287
RADONJIĆ, B. ZIVKOVIĆ, P. and USKOKOVIĆ, D.	
"On the Mechanism and factors affecting Grain Refinement of Aluminium by Al-Ti5-B1 Alloy" .....	302
RIESENKAMPF, W.	
"Etudes de la Formation des Concrétions dan la Partie Froide du Four Pendant le Procédé d'Agglomération de la Bauxite avec du Calcaire et de la Soude" .....	323
SKOULIKIDIS, TH. and BATZIAS, F.	
"Structure Secondaire des Alumines Actives, Prepares Electrolytiquement. (Orientation des Cellules de $Y_1-Al_2O_3$ ; $Y_{1,2}-Al_2O_3$ : Stage Intermediaire de la formation de $Y_2-Al_2O_3$ Sur $Y_1-Al_2O_3$ )" .....	338
SKOULIKIDIS, TH. and SARROPOULOS, C.	
"Catalytic Properties of Active Aluminas ( $Y_1-Al_2O_3$ and $Y_2-Al_2O_3$ ), Pure and Dopèd, Electrolytically Prepared" .....	356
SKOULIKIDIS, TH. and BATZIAS, F.	
"Physical Sorption Properties of Electrolytically Prepared Active Aluminas ( $Y_1-Al_2O_3$ and $Y_2-Al_2O_3$ )" .....	375
SOLYMÁR, KAROLY and FERENCZI, TIBOR	
"New Possibilities for Processing Diasporic Bauxites" .....	388
STOURNARAS, C.J. GHOSH, D. and KAY, D.A.R.	
"Determination of the Standard Free Energy of Formation of Alumina and Hercynite" .....	404
SZABÓ, Z.G. ORBÁN, M. and PERL, I.	
"Some Fundamental Research for Alumina Industry in Hungary" .....	422

THONSTAD, JOMAR and ROLSETH, SUERRE	
"On the Reoxidation Reaction in Aluminum Electrolysis" .....	437
TOMPOULOGLOU, CHARALAMPOS.	
"Bilan de Fluor D'une Industrie d'Aluminium" ...	448
ZIVKOVIĆ, Z.D. PACOVIĆ, N. and FILIPOVIĆ, M.	
"The effect of $AlF_3$ on Calcination Process of Aluminium Hydroxide" .....	460