

CONTENTS OF VOLUME 2

Number 1

Review: Fabrication of Engineering Ceramics by Injection Moulding. I. Materials Selection	1
M. J. EDIRISINGHE and J. R. G. EVANS (England)	
Microstructure, Oxidation and Creep Behaviour of a β' -Sialon Ceramic	33
T. CHARTIER, J. L. BESSON and P. GOURSAT (France)	
Mechanical Property Evaluation at Elevated Temperature of Sintered β -Silicon Carbide	47
M. J. SLAVIN and G. D. QUINN (USA)	
Leaching Behavior of Si–Y–Al–O–N Glasses	65
JOHN W. WALD, DONALD R. MESSIER and EILEEN J. DEGUIRE (USA)	
Wetting of Aluminum Oxide by Liquid Aluminum	73
H. JOHN and H. HAUSNER (Germany)	
Book Review	79
Announcements	81
Calendar	83

Number 2

Mechanical Properties of Y-PSZ After Aging at Low Temperature	85
TAKAKI MASAKI (Japan)	
Phase Transformations and Grain Growth in Silicon Carbide Powders	99
P. A. KISTLER-DE COPPI and W. RICHARZ (Switzerland)	
Phase Equilibrium Studies in $\text{Si}_2\text{N}_2\text{O}$ -containing Systems: II. Phase Relations in the $\text{Si}_2\text{N}_2\text{O}$ – Al_2O_3 – La_2O_3 and $\text{Si}_2\text{N}_2\text{O}$ – Al_2O_3 – CaO Systems	115
G. Z. CAO, Z. K. HUANG, X. R. FU and D. S. YAN (T. S. YEN) (People's Republic of China)	
Synthesis of Mullite Powder and its Characteristics	123
M. G. M. U. ISMAIL, ZENJIRO NAKAI, KEIICHI MINEGISHI and SHIGEYUKI SÖMIYA (Japan)	
Preferred Orientation of the Transformed Monoclinic Phase in Fracture Surfaces of Y–TZP Ceramics	135
A. W. PATERSON (South Africa) and R. STEVENS (England)	
Coaxial Resonator Method to Determine Dielectric Properties of High Dielectric Constant Microwave Ceramics	143
E. KEMPPINEN and S. LEPPÄVUORI (Finland)	

Symposium Report	157
Book Review	161
Announcement	163
Calendar	165

Number 3

Improvement of Thermal Stability of Yttria-Doped Tetragonal Zirconia Polycrystals by Alloying with Various Oxides	167
TSUGIO SATO, SHIRO OHTAKI, TADASHI ENDO and MASAHIKO SHIMADA (Japan)	
The Effect of Post-Creep Thermal Treatment on Cavitation Damage	179
R. A. PAGE and J. LANKFORD (USA)	
Importance of Homogeneous Composition in Sintering Behaviour of $\text{Ba}_2\text{Ti}_9\text{O}_{20}$ Ceramics	195
T. JAAKOLA, A. UUSIMÄKI and S. LEPPÄVUORI (Finland)	
Toughened Ceramics in the System $\text{Al}_2\text{O}_3\text{:Cr}_2\text{O}_3\text{/ZrO}_2\text{:HfO}_2$	207
T. Y. TIEN, T. K. BROG and A. K. LI (USA)	
Comparison of Indentation and Notched Bar Toughness of TZP Ceramics: Relevance to Models of the Fracture Process	221
A. W. PATERSON (South Africa) and R. STEVENS (England)	
Book Review	231
Calendar	233
Selected Abstracts from <i>Yogyo-Kyokai-Shi</i>	235

Number 4

Review: Fabrication of Engineering Ceramics by Injection Moulding. II. Techniques	249
M. J. EDIRISINGHE and J. R. G. EVANS (England)	
Corrosion of SiC , Si_3N_4 and AlN in Molten $\text{K}_2\text{SO}_4\text{--K}_2\text{CO}_3$ Salts	279
TSUGIO SATO, YOSHIMI KANNO and MASAHIKO SHIMADA (Japan)	
Synthesis and Hot-pressing of Single-phase ZrC_xO_y and Two-phase $\text{ZrC}_x\text{O}_y\text{--ZrO}_2$ Materials	291
P. BARNIER and F. THÉVENOT (France)	
Conference Reports	309
Calendar	314
Selected Abstracts from <i>Yogyo-Kyokai-Shi</i>	315