

Contents	<i>Page</i>
1. Production of Fumed Oxides by Flame Hydrolysis <i>A. T. Liu and P. Kleinschmit</i>	1
2. Nucleation and Growth of Monodisperse TiO ₂ Powders from Alcohol Solution in the Presence of a Sterically Stabilizing Surfactant <i>J. H. Jean and T. A. Ring</i>	11
3. Oxide Powders by Hydrothermal Synthesis <i>A. J. Monhemius and B. C. H. Steele (Abstract only)</i>	35
4. Preparation of Zirconia Fine Powders by Critical Solvent Evaporation <i>R. Gopalakrishnan, M. Komac, V. Kraševac, T. Kosmač</i>	37
5. The Origin of Defects arising in Colloidal Processing of Sub-micron, Monosize Powders <i>J. S. Chappell, J. D. Birchall and T. A. Ring</i>	49
6. Freeze Drying Alumina Powders <i>M. W. Real</i>	59
7. Compounding Ceramic Powders Prior to Injection Moulding <i>M. J. Edirisinghe, J. R. G. Evans</i>	67
8. Preparation and Ordering of Spherical, Submicron, Monosized Powders <i>S. J. Milne</i>	81
9. Vibratory Assistance to the Pressing of Ceramic Powders <i>P. Boch and B. Rogeaux</i>	91
10. Slip Casting of Al ₂ O ₃ /ZrO ₂ Composites <i>J. Requena, R. Moreno and J. S. Moya</i>	101
11. Low Temperature Sintering of Alumina <i>M. Paulus and J. P. Fitoussi (Abstract only)</i>	109
12. PZT Ceramic from Organometallic Precursors <i>M. E. Dawes and A. J. Moulson</i>	111
13. Manufacture of Beta" Alumina Shapes by Electrophoretic Deposition <i>S. N. Heavens</i>	119
14. Study of Some Processing Aspects in the Y-Tetragonal Zirconia Preparation Using Organic Precursors <i>P. Recio, C. Pascual, C. Moure, J. R. Jurado and P. Duran</i>	127

	<i>Page</i>
15. Chemical Preparation of Aluminium Titanate <i>H. A. J. Thomas and R. Stevens</i>	137
16. Sintering Properties of Dissociated and Reassociated Zircon <i>P. Boch, G. Kapelski and J. P. Giry</i>	149
17. Sialon Materials from Alumino-Silicate Minerals <i>F. L. Riley (Abstract only)</i>	161
18. The Mechanism of Formation of β' -Sialon from Oxides <i>I. Higgins and A. Hendry</i>	163
19. Casting Conditions and Rheological Properties of Si_3N_4 Based Materials <i>A. Bellosi, C. Galassi, R. Lapasin, E. Lucchini</i>	179
20. Thick Films of Zirconia and Ceria for Interfacial Studies <i>D. Bauza, D. Especel, M. Gouet</i>	197
21. Near-Net Shape Fabrication by Thermal Spraying <i>K. T. Scott and A. G. Cross</i>	203
22. Tape Casting: A Technique for Preparing and Studying New Materials <i>C. Fiori, G. de Portu</i>	213
23. An Inexpensive Oxygen Sensor Made with Zirconia-Based Cermets <i>M. Gogé, Y. Maniette, K. Heggstad, M. Gouet</i>	227
24. Electro-Active Characterization of Polymer-Ceramic Composite <i>D. K. Das-Gupta and M. J. Abdullah</i>	231
25. New Developments in Gel Processing <i>D. L. Segal and J. L. Woodhead</i>	245
26. Glasses from Alkoxide Derived Gels <i>I. Strawbridge and P. F. James</i>	251
27. An Electronic Conductive Membrane from a Sol-Gel Process <i>C. Guizard, N. Idrissi, A. Larbot, L. Cot</i>	263
28. Oxides with Controlled Surface and Porous Properties from Sol- Gel-Techniques <i>J. D. F. Ramsay and R. G. Avery</i>	275
Author Index	285
Subject Index	287