

CONTENTS

PART 1

	PAGE
PREFACE	3
ACKNOWLEDGEMENTS	5
1. THE HIGH TEMPERATURE PROBLEMS	11
<i>Heat Resistance and Insulation—Reinforced Plastics— High Temperature Polymers--Composite Materials</i>	
2. FUSED SILICA FIBRES	25
<i>Fused Silica Wool Fibres—Fused Silica Continuous Filaments—Reinforced Plastics—Reinforced Ceramics —Metal-coated Fused Silica Filaments—Composites</i>	
3. HIGH SILICA CONTENT FIBRES	41
<i>'Refrasil'—'Refrasil' Reinforced Plastics—'Astrolite' —Other High Silica Content Fibres—Review of Patents</i>	
4. ALUMINIUM SILICATE FIBRES	65
<i>'Fiberfrax'—Ceramic Fibre Reinforced PTFE Plastics —Aluminium Silicate Fibres in Structural Application —'Kaowool'—I-M Ceramic Fibre—Miscellaneous Aluminium Silicate Fibres</i>	
5. POTASSIUM TITANATE FIBRES	107
<i>'Tipersul'—'Resistotherm'—'Resistotemp' Moulding Compound</i>	
6. SUPER REFRACTORY FIBRES	116
<i>Refractory Oxide Fibres—Whiskers—Carbon and Graphite Fibres</i>	

	PAGE
7. ASBESTOS IN HIGH TEMPERATURE RESISTING 'COMPOSITE' MATERIALS	161
<i>Blue Crocidolite Asbestos—Amosite Asbestos—Asbestos-Glass Fibre Composites—Asbestos-Ceramic Fibre Composites—Asbestos-Metal, Metal Fibres Composites—Asbestos-Metallic Wool, Wire Composites—Asbestos-Graphite Composites—Silicon-Zircon-Asbestos Composite Insulation—Asbestos-Polyamide Fibres, Ablative Composite Materials—Asbestos-Fluorocarbon Heat Resistant Composite Materials</i>	
8. ASBESTOS IN AIRCRAFT AND MISSILES	190
<i>Rockets and Missiles—Aircraft Industry</i>	
9. METALLIC FIBRES	206
<i>Metal Wools—Fibre Metallurgy—Metal Fibre Paper—Metal Fibre Reinforced Ceramics—Ceramic-Metal Systems—Reinforced Metal Composites—Woven, Knitted, Twisted, and Wound Wire Filaments</i>	
10. COATED FIBRES	253
11. MISCELLANEOUS FIBRES	263
<i>'Pluton'—Titanium Dioxide Fibres—Boron Fibres</i>	
PART 2—RECENT PROGRESS	272
INDEX OF SUBJECTS	363
NAME INDEX	369
ADDENDUM	375