

CONTENTS

<b>1. Introduction</b>	<b>1</b>
<b>2. Manufacturing Processes</b>	<b>4</b>
2.1 Body Preparation	5
2.2 Making Methods	9
2.3 Firing and Finishing	18
<b>3. Properties Important During Making</b>	<b>19</b>
3.1 Plasticity	19
3.2 Dry-strength	22
3.3 Drying Shrinkage	23
3.4 Suspension Properties and Slip Casting	28
<b>4. Reactions Occurring on Firing</b>	<b>35</b>
<b>5. Ceramic Raw Materials</b>	<b>40</b>
5.1 Clays	40
5.2 Silica	71
5.3 Fluxes	76
5.4 Refractory Materials	80
5.5 Materials Used in Low Expansion Bodies, Glasses and Glazes	95
5.6 Plaster of Paris	97
5.7 Materials Used in Ceramic Glazes	98
5.8 Colouring Materials Used in Decoration	104
5.9 Materials Used in Electrical Applications	107