## CONTENTS

1.	Basic Chemical and Physical Laws	1
2.	Structures and Properties of Ceramic Materials	13
3.	Selection and Control of Ball and China Clays	50
4.	Non-Plastics in Ceramic Body Mixes	70
5.	Preparation and Processing of Plastic Bodies and Casting Slips-Clay Blunging	82
6.	Processes and Machinery for Mixed-Body Preparations by Slop Methods	90
7.	Preparation of Mixed Bodies as Plastic, Casting Slip, or 'Dry' Mixes	100
8.	Ceramic Drying-Cracked and Chittered Edge Loss	109
9.	Further Consideration of Drying. Handle joints	120
10.	Some Unusual Occurrences in Ceramic Slips and Plastic Bodies	130
11.	Influence of Raw Body Phenomena on Fired Properties	140
12.	Biscuit Firing	149
13.	The Glost Fire	165
14.	The Firing of On-Glaze Decoration	175
15.	Choice of Kilns	185
16.	Glazes (1) Application, Control and Faults	193
17.	Glazes (2) Mechanical Glazing. Glaze Make-up. Fired Faults	201
18.	Traditional and Modern Media in Decoration	210
19.	Cases and Moulds, Plaster, Resins and Parting Compositions	220
20.	Protective Production and Quality Testing (Tableware, Sanitary Ware, and Tiles)	229
21.	Instrumentation in Ceramic Processing	239
22.	Future Development Trends for Bodies, Glazes and Decoration for Low-cost and	
	Low-loss Production	249
23.	The Manufacture of Earthenware*	258
24.	China and Porcelain*	293

Index 303