

CONTENTS

PART ONE – CLAY

CHAPTER 1	Geologic origins of Clay	3
CHAPTER 2	The Chemical Composition of Clay	5
CHAPTER 3	The Physical Nature of Clay	8
CHAPTER 4	Drying and Firing Clay	12
CHAPTER 5	Kinds of Clay	17
CHAPTER 6	Clay Bodies	22
CHAPTER 7	Mining and Preparing Clay	46

PART TWO – GLAZES

CHAPTER 8	The Nature of Glass and Glazes	53
CHAPTER 9	Early Types of Glazes	57
CHAPTER 10	The Oxides and Their Function in Glaze Forming	61
CHAPTER 11	Glaze Materials	71
CHAPTER 12	Glaze Calculations, Theory, and Objectives	78
CHAPTER 13	Glaze Calculation Using Materials Containing More than One Oxide	85
CHAPTER 14	Calculating Glaze Formulas from Batches or Recipes	94
CHAPTER 15	Practical Problems in Glaze Calculation	96
CHAPTER 16	The Composition of Glazes	99
CHAPTER 17	Types of Glazes	106
CHAPTER 18	Originating Glaze Formulas	113
CHAPTER 19	Fritted Glazes	118
CHAPTER 20	Glaze Textures	123
CHAPTER 21	Sources of Color in Glazes	127
CHAPTER 22	Methods of Compounding and Blending Colored Glazes	135
CHAPTER 23	Glaze Mixing and Application	143
CHAPTER 24	Firing Glazes	148
CHAPTER 25	Glaze Flaws	153
CHAPTER 26	Engobes	160
CHAPTER 27	Underglaze Colors and Decoration	165
CHAPTER 28	Overglaze Decoration	168
CHAPTER 29	Reduction Firing and Reduction Glazes	171
CHAPTER 30	Special Glazes and Glaze Effects	182
APPENDIX		197
INDEX		215