TABLE OF CONTENTS

	Page
Preface	v
Chapter I. Introduction	1
Chapter II. How to Hold the Slide Rule	7
Chapter III. The Scales of the Slide Rule	11
The C and D Scales	13
The CI Scale	23
The A and B Scales	24
The K Scale	26
The Sine Scale	28
The Tangent Scale	36
The Log Scale	38
Review Questions	42
Chapter IV. Multiplication	45
Digit Count. Locating the Decimal Point	50
Multiplication of Many Numbers by One Number	55
Multiplication of Three or More Numbers	57
Basis of the Process of Multiplication	60
Review Problems	65
Chapter V. Division	67
The Process of Division	67
Location of the Decimal Point in Division	70
Division of One Number by Many Numbers	73
Division of Many Numbers by one Number	74
Percentage Calculations	77
Division of One Number by the Product of Two Numbers	78
Location of Decimal Point	80
Basis of the Process of Division	82
Review Problems	85
Chapter VI. Combinations of Multiplication and Division	89
Location of the Decimal Point	94
Review Problems	107
Chapter VII. The Square and Square Root	109
The Square of a Number	109
Location of the Decimal Point	109
The Square Root of a Number	114
Location of the Decimal Point	115
Basis of the Process	118
Review Problems	121
Chapter VIII. The Cube and Cube Root	125
Part A—The Cube of a Number without the K Scale	125
Location of the Decimal Point	127
Basis of the Process of Finding the Cube	130
Part A—The Cube Root of a Number without the K Scale	130
Digits and Remainders	131
Location of the Decimal Point	139
Basis of the Process of Finding the Cube Root	142
Part B—The Cube of a Number with the K Scale	144
Part B—The Cube Root of a Number with the K Scale	146
Location of the Decimal Point	148
Basis of the Process	151
Review Problems	156

Page

Chapter IX. Sines and Cosines 157
The Sine of an Angle 157
Basis of the Process 160
The Sine of a Very Small Angle 161
Basis of the Process 162
The Cosine of an Angle 163
The Sine of an Angle between 70° and 90° 164
The Sine of an Angle Greater than 90° 165
The Cosine of an Angle Greater than 90° 167
The Arc Sine of a Number 168
The Arc Sine of a Number less than 0.01 169
The Arc Cosine of a Number 170
The Arc Sine of a Number between 0.95 and 1 171
Basis of the Process 172
Review Problems 174
Chapter X. The Tangent of an Angle 177
Basis of the Process 179
The Tangent of a Very Small Angle 180
Basis of the Process 182
The Tangent of an Angle between 45° and 84°17′ 182
Basis of the Process 183
The Tangent of an Angle between 84°17′ and 90° 183
Basis of the Process 184
The Tangent of an Angle Greater than 90° 184
The Arc Tangent of a Number between 0.1 and 1 186
The Arc Tangent of a Number between 1 and 10 187
The Arc Tangent of a Number Less than 0.1 188
The Arc Tangent of a Number Greater than 10 189
Review Problems 192
Chapter XI. The Log Scale 193
Logarithms to the Base 10 193
Basis of the Process 198
The Antilog for a Given Logarithm to the Base 10 198
Logarithms to the Base e 202
The Antilog for a Given Logarithm to the Base e 203
Review Problems 206
Chapter XII. The Reciprocal Scale 207
Multiplication with the CI Scale 208
Locating the Decimal Point 208
Basis of the Process 211
Division with the CI Scale 213
Location of the Decimal Point 214
Basis of the Process 217
Multiplication of Three Numbers 220
Locating the Decimal Point 221
Basis of the Process 224
Division of One Number by Two Other Numbers 224
Locating the Decimal Point 224
Basis of the Process 229
Review Problems 229
Chapter XIII. How to Check a Slide Rule 231
Chapter XIV. Final Suggestions 235
Summary of Rules for Locating the Decimal Point 237
Rules for Fundamental Operations of the Slide Rule 238
Negative Numbers 240
Answers to Practice Problems 243
Index 251