549.133 AND 9th ed.

CONTENTS

How to Use this Book	I
I Collecting, Handling, and Housing Gemstones	5
2 Refractive Index and its Measurement	15
3 Double Refraction and Dispersion	49
4 Colour, Colour Filters, and the Dichroscope	63
5 The Specific Gravity of Gemstones and How to Measure it	71
6 The Use of the Microscope	87
7 Detection of Synthetic, Imitation and Composite Stones	99
8 The Use of the Spectroscope	158
9 Fluorescence as an Aid to Identification	202
10 The Identification of Diamond	215
11 The Identification of ruby	242
12 The Identification of Sapphire	255
13 The Identification of Emerald	265
14 Aquamarine and Alexandrite	276
15 Zircon	284
16 Topaz and Other Yellow Stones	293
17 Pink, Mauve, or Lilac Stones	301
18 Brown and Orange Stones	305
19 Quartz, Chalcedony, and Opal	311
20 The Garnet Family	326
21 Tourmaline, Peridot, and Spinel	339
22 Jade and Jade-like Minerals	350
23 Turquoise and Lapis Lazuli	360
24 Cat's-eyes, Star-stones, and Others	366
25 Amber, Tortoiseshell, Coral, Jet and Ivory	375
26 Pearls: Real, Cultured, and Imitation	384
Appendix	403
Index	429