

CONTENTS

1 The Science, Geology	1
2 Minerals and Matter	3
3 The Record of the Rocks	17
4 Weathering and Soils	41
5 Erosion	60
6 Geologic Maps	88
7 Fossils, Strata, and Time	102
8 Movements of the Earth's Crust	119
9 Records of Earth Movements	135
10 geodesy, Isostasy, and Strength	160
11 Downslope Movements of Soil and Rock	182
12. Stream Erosion and Deposition	2307
13 glaciers and Glaciation	248
14 Ground Water	287
15 Deserts and the Work of the Wind	308
16 The Oceans	334
17 Sedimentary Rocks and the Environments of Deposition	368
18 Igneous Activity and Metamorphism	411
19 Earthquakes and the Earth's Interior	455
20 Mountains	494
21 Mineral Resources	532
22 Speculations about the Origin of the Earth and of Life	561
Appendix	588
Index	645