## Volcanoes of the Earth

Second Revised Edition

By Fred M. Bullard



University of Texas Press, Austin



## Contents

	Acknowledgments ix
	Prologue 3
Part One	Facts and Fiction about Volcanoes 7
Chapter 1	What Is a Volcano? 9
Chapter 2	Mythology and Early Speculation on Volcanoes 11
Chapter 3	Volcanology Becomes a Science 15
Chapter 4	Classification of Volcanoes 30
Chapter 5	What Comes Out of a Volcano 35
Chapter 6	Cones, Craters, and Calderas 78
Part Two	Types of Volcanic Eruptions 113
Chapter 7	The Peléan Type of Volcanic Eruption 115
Chapter 8	The Vulcanian Type of Volcanic
- bright practs	Eruption 184
Chapter 9	The Strombolian Type of Volcanic
	Eruption 242
Chapter 10	The Hawaiian Type of Volcanic
al Satisday	Eruption 256
Chapter 11	The Icelandic Type of Volcanic
De la TI	Eruption 296
Part Three	Effects of Volcanoes 221
Chapter 12	Volcanic Cycles 222
Chapter 12	Birth of New Volcanoes 350
Chapter 14	Man's Use of Geothermal Energy 300
Chapter 15	Distribution Current Activity and Geologic
Chapter 19	Relationships of Volcanoes, Island Arcs, and
	Mountains 443
Chapter 16	Continental Drift, Plate Tectonics, and
a controllar	Volcanism 477
Chapter 17	Intensity and Energy of Volcanic
	Eruptions 502
Chapter 18	Volcanoes and the Environment 511
Chapter 19	Volcanoes of the Cascade Range, Northwest United States 529
	Retrospect 574
Appendix A	Geologic Time Scale 577
Appendix B	Units of Measure and Conversion Tables 579
Glossary	581
Bibliography	591
Index	611