

	PAGE
The Mineral Paints .....	222
The Diatomaceous Earth (Tripoli).....	223
The Mineral Waters .....	223
The Road-building Materials .....	224
The Miscellaneous Products.....	225
PART IV. BIBLIOGRAPHY AND CARTOGRAPHY OF MARYLAND, INCLUDING PUBLICATIONS RELATING TO THE PHYSIOGRAPHY, GEOLOGY AND MINERAL RESOURCES. BY EDWARD B. MATHEWS .....	229
Bibliography .....	231
Cartography .....	332
PART V. FIRST REPORT UPON MAGNETIC WORK IN MARYLAND, INCLUDING THE HISTORY AND OBJECTS OF MAGNETIC SURVEYS. BY L. A. BAUER.....	403
INTRODUCTION .....	405
THE DEVELOPMENT AND PURPOSES OF MAGNETIC SURVEYS .....	407
The Magnetic Declination .....	407
The Secular Variation of the Magnetic Declination .....	411
The Magnetic Inclination .....	413
The Diurnal Variation of the Earth's Magnetism .....	418
The Intensity of the Earth's Magnetic Force .....	418
The Elements involved in Magnetic Surveys .....	421
Historical Summary of Magnetic Surveys.....	425
GENERAL ACCOUNT OF THE MAGNETIC SURVEY OF MARYLAND .....	432
Introductory Remarks.....	432
Base Station.....	435
Itinerary of Magnetic Trips .....	435
Selection of the Stations .....	437
Methods of Observation .....	439
The Epoch selected for the Isomagnetic Maps.....	449
Magnetic Instruments .....	450
THE VARIATIONS OF THE MAGNETIC DECLINATION .....	453
The Special Purpose of this Chapter .....	453
Periodic Variations.....	454
Minor Periodic Fluctuations.....	461
Magnetic Storms .....	461
The Secular Variation.....	463
THE DISTRIBUTION OF THE MAGNETIC DECLINATION IN MARYLAND .....	486
Explanatory Remarks.....	486
Table of Magnetic Declinations observed by the Maryland Geological Survey .....	489
Table of Magnetic Declinations observed by the Coast and Geodetic Survey.....	490
Isogonic Chart for 1900 .....	492
Isogonic Charts for 1700 and 1800 .....	494
The Secular Motion of the Agonic line over Maryland .....	494
The Effect of the Secular Variation of the Magnetic Meridians .....	495