

A Second Series of Chemical and Geological Essays with a General Introduction :

First Edition published in 1886.

Second Edition with new Preface, 1890.

A New Basis for Chemistry: A Chemical Philosophy, 1887. Translated by Prof. W. Spring into French and published in Paris and Liege as Un Système Chémique Nouveau, 1889.

Systematic Mineralogy based on a Natural Classification with a General Introduction, 1891.

Special Report on the Trap Dykes and Azoic Rocks of Southeastern Pennsylvania, 1878.

#### EXTRA LECTURES.

1866-1867. Lectures on Chemical and Physical Geography delivered before the Lowell Institute, Boston.

1872. Twenty lectures on Chemistry delivered before the Ladies' Educational Institute, Montreal.

1874. Six lectures on Chemistry of the Waters delivered before the Boston Society of Natural History, Boston.

1875. One lecture on the Constitution of Water as Related to Modern Chemistry and Physics, before Examiner Club.

1875. One lecture on the Glazier Perlod, delivered for the Lit. and His. Society of Quebec.

1875. Eighteen lectures on the Practical Geology of the U. S., Boston.

1876. Eighteen lectures on Elementary Geology.

1876. A Course on the Older Rocks before the Boston Society of Nat. History.

1876. The Building of the Earth, delivered in Salt Lake City.

1877. Chemical History of the Earth, before Chestnut Street Club.

1881. Coal.

1883. Twelve lectures on Mineral Physiology before Lowell Institute.

1884. The Manufacture of Iron, before Finance Club, Cambridge, Mass.

1885. On Arbor Day, Montreal.

1886. On Geology, Campobells.

1886. On the Alps, Liverpool, England.

1888. Theory of Volcanoes, Montreal.

1889. Goethe and Modern Science, The Concord School of Philosophy.