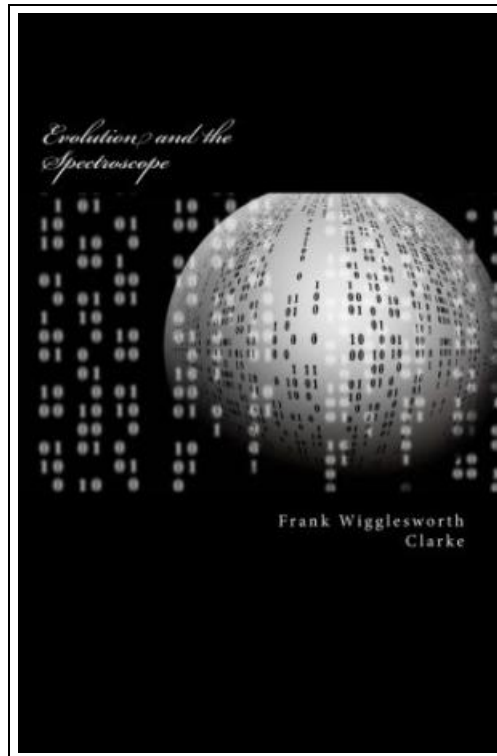


## Evolution and the Spectroscope



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Createspace Independent Publishing Platform, United States, 2016. Paperback. Book Condition: New. 198 x 129 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Evolution and the Spectroscope is a short essay by Frank Wigglesworth Clarke. Frank Wigglesworth Clarke (March 19, 1847 May 23, 1931) of Boston, Massachusetts, and Washington, D.C. was an American scientist and chemist. Sometimes known as the "Father of Geochemistry," Clarke is credited with determining the composition of the Earth's crust. He was a founder of The American Chemical Society and served as its President, 1901. Professor Clarke was the first theorist to advance a hypothesis regarding the evolution of elements. This concept emerged early in his intellectual career. His "Evolution and the Spectroscope" (1873) appear in Popular Science Monthly. It noted a parallel evolution of minerals, accompanying that of plant life. He was known for pushing mineral analysis beyond analytical results. He sought compilations of the associations, alterations, and syntheses of each mineral sample. His study Constants of Nature (Smithsonian Institution 1876) was one of the first collections of both physical and chemical constants. The USGS's Atomic Weights series became standard references for the chemistry and geochemistry professions and academic fields. Clarke was also an academic collaborator. His Data on Geochemistry became a means of collecting peer professional efforts for common use across five successive editions. Beginning with his Constitution of silicates (1895), Professor Clarke advanced a methodology of geochemical analysis which described a minerals composition through fact coordination. Priority was placed on contextualizing the research by describing constitution, structure and relationship with other minerals. The mineral samples natural history was the end goal, a means of articulating the minerals alteration products and pseudomorphs as a record of chemical change. To this record Clarke added the artificial history record available in the laboratory....



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