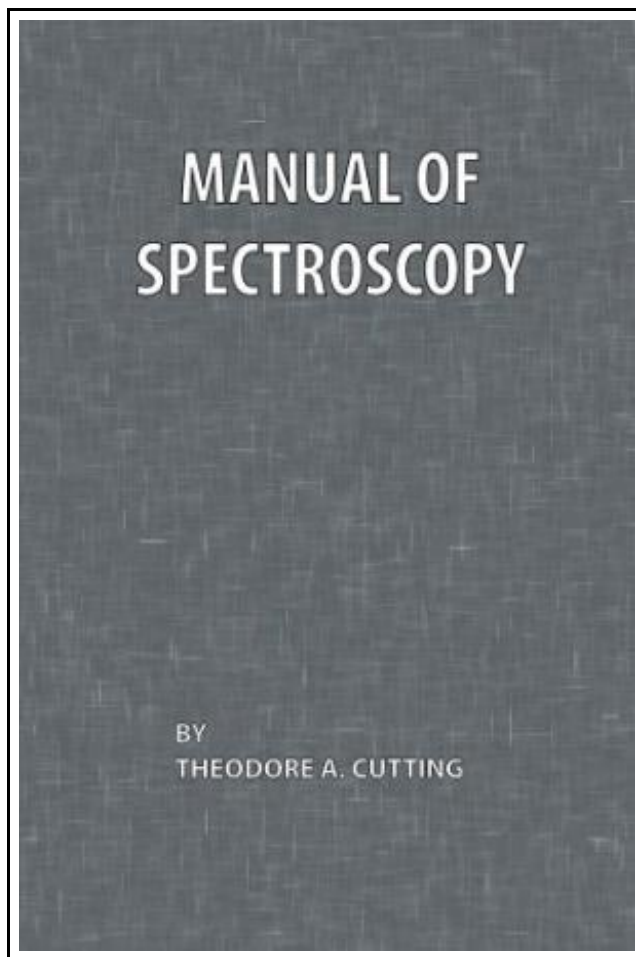


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CONTENTS - Preface - I. History and Theory of Spectroscopy - 1. Historical Review - 2. The Atom in Spectroscopy - II. Light Sources - 1. The Electric Arc - 2. The Spark - III. Spectroscopes - 1. Optical Systems - 2. Industrial Spectrographs - 3. Spectroscope Construction - IV. Spectroscopic Analysis - 1. Qualitative Analysis - 2. Determinations - 3. Quantitative Analysis - V. The Spectroscope in Mineralogy - 1. Tests Used in Mineral Identification - 2. Application of the Spectroscope in Mineral Classification - VI. Characteristic Lines of the Elements - VII. Wave-Length Table-Chart - Appendix - Conversion Table - Bibliography - Firms Selling Spectrographic Materials - Index - PREFACE - Too many chemists, mineral collectors, prospectors, and even assayers struggle with tedious chemical and uncertain flame and blowpipe tests when a spectroscope would give far more prompt results. With electricity universally available, and with present day instruments and parts so low in cost, spectroscopic equipment should be in every school and laboratory. This book has been written to assist those who wish to analyze ores, minerals, alloys, and inorganic chemicals, or wish to teach others to do so. In the qualitative analysis of such materials, there is no instrument so rapid and accurate as the spectroscope, although the analyst must remain within its limits of operation. This is also true of the quantitative analysis of these materials. Although speed comes only after some experience, one may very soon acquire the necessary technique for accurate determinations. The author has attempted to point out some of the short cuts to quick spectroscopic success. Direct methods of burning samples are shown; the key lines...

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