

## Spectral Differentiation of Pure Hydrocarbons: A Near Infrared Absorption Study (Classic Reprint) (Hardback)



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### ***Reviews***




*An incredibly amazing book with perfect and lucid information. I was able to comprehend everything using this written e book. I realized this book from my dad and i advised this ebook to understand.*  
*(Hank Ruecker DDS)*

## SPECTRAL DIFFERENTIATION OF PURE HYDROCARBONS: A NEAR INFRARED ABSORPTION STUDY (CLASSIC REPRINT) (HARDBACK)



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Forgotten Books, 2017. Hardback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Spectral Differentiation of Pure Hydrocarbons: A Near Infrared Absorption Study The spectrograph, of the Littrow form, is shown in figure 1. The source of continuous radiation is a tungsten ribbon - filament lamp which is enclosed in a water-jacketed cell. The light is collimated through a large brass tube 1 m long, and focused by a concave mirror on the slit of the spectrograph. The absorption cell containing the solution or compound under investigation is fixed in the light path between the collimating tube and the slit. The light then goes to a large concave mirror from which parallel rays are reflected through two 60 glass prisms, then reflected by the plane Littrow mirror over the same path, giving four-prism dispersion, and finally focused on a sensitive vacuum thermocouple. Wave length variation is accomplished by rotation of the Littrow mirror which is coupled with the motion of a recording photographic plate by means of a lever system. As the incident energy on the thermocouple actuates the galvanometer, a beam of light reflected from the galvanometer mirror moves across the photographic plate, so that one has recorded a graph of galvanometer deflections with wave lengths, or a plot in arbitrary units of the intensity of transmitted light against frequency. As a check on the constancy of the intensity of emission of the tungsten filament, the cell was withdrawn from the light path by means of a solenoid arrangement moving the cell-holder along a dove-tail slide, thus producing on the recorded photographic plate segments of the curve of the emission of the source not modified by the absorption cell. Likewise, to determine the zero drift of the galvanometer, a shutter was...

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