



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

By Urner Liddel

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...



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