



Contributions to Mineralogy and Petrography; From the Laboratories of the Sheffield Scientific School of Yale University

By Samuel Lewis Penfield

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1901 edition. Excerpt: .also cited by him as giving the smallest value of $2E$ (71 32) must be the richest in water or hydroxyl and poorest in fluorine of any topaz that has thus far been examined. The indices of refraction also show a progressive change along with the variations of $2E$ as may be seen by the following determinations, given for yellow light by different investigators. As hydroxyl replaces fluorine, therefore, the indices of refraction increase and the strength of the double refraction decreases, as shown by the values $\gamma - \alpha$ in the extremes: Thomas Range, Utah $\gamma - \alpha = 0.0104$ Minas Geraes, Brazil $\gamma - \alpha = 0.00811$ The crystallographic axes are also affected by the isomorphous replacement of fluorine by hydroxyl. The variation however is not very great and only exact determinations can be used for showing it. Mr. C. A. Ingersoll has kindly made for us some...



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