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Smithsonian Contributions to Knowledge 1126, Hodgkins Fund: A Determination of the Ration (X) of the Specific Heats at Constant Pressure and at Constant Volume for Air, Oxygen, Carbon-Dioxide, and Hydrogen (Classic Reprint)

By O Lummer

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Smithsonian Contributions to Knowledge 1126, Hodgkins Fund: A Determination of the Ration (X) Of the Specific Heats at Constant Pressure and at Constant Volume for Air, Oxygen, Carbon-Dioxide, and Hydrogen The present memoir is the result of a series of investigations by Doctors O. Lummer and E. Pringsheim, of Charlottenburg, Germany, aided by a grant from the Hodgkins Fund of the Smithsonian Institution. After a period of notable advance the kinetic theory of gases seems to have fallen into temporary abeyance, possibly from a fundamentally imperfect understanding of their behavior. Progress in knowledge of this fundamental nature of gases may reasonably be looked for from interpretative researches on their thermal capacity, and the following paper may be regarded as a step in this direction. Aside from its exceptional importance in thermodynamics, the specific heat ratio is of interest as affording a clue to the character of the molecule; and Messrs. Lummer and Pringsheim, using a new method, appear for the first time to have reached coincident results on the incoercible gases examined. In accordance with...

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