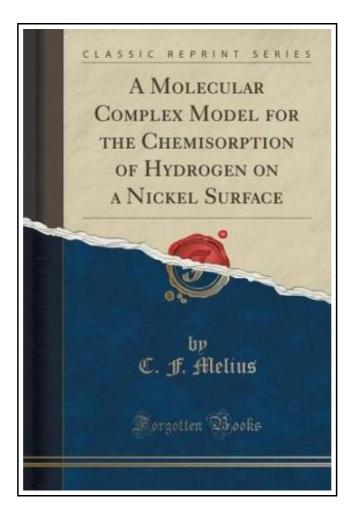
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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from A Molecular Complex Model for the Chemisorption of Hydrogen on a Nickel Surface We present here some preliminary results of the application of atomic pseudopotentials to the construction of a simple model of the chemisorption of hydrogen molecules on a transition metal surface. The experimental facts which must be understood are the following: (1) Nickel chemisorbs hydrogen molecules dissociatively down to liquid nitrogen temperature [1]. The reaction is considered to take place with little or no activation energy. (2) Copper which is similar to nickel except that it contains a filled 3rd band does not dissociatively chemisorb hydrogen molecules, although copper strongly absorbs hydrogen atoms [2]. The ability of nickel to dissociatively chemisorb hydrogen is generally ascribed to the unfilled d band of the nickel. The aim of this investigation is to understand the role of the electronic structure of a transitions metal, particularly the d electrons, in determining its catalytic activity. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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