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Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from **A Statistical Technique for Forecasting Severe Weather From Vertical Soundings by Satellite and Radiosonde** For severe weather applications, three limitations of radiosonde data become apparent. Aliasing, the use of a single point measurement to represent a large area, becomes a significant problem in pinpointing severe weather. Secondly, the timeliness of the data is not optimal, as surface heating which affects convection is not strongly felt until after 1200 gmt. Thirdly, the relatively wide spacing of radiosonde data limits the ability of objective analyses in pinpointing the locations and magnitudes of strong gradients. It is often in the areas possessing strong moisture and thermal gradients that severe weather is most likely to occur. The noaa - 6 polar orbiting satellite with its infrared and microwave radiometers allows quantitative measurements to be made of the troposphere at a much higher horizontal resolution. Vertical profiles of temperatures and dewpoints are calculated from these radiometric measurements (smith et al., From the temperature and moisture data, pressure height fields are calculated using the hypsometric equation, from which gradient winds are calculated. As such, the satellite soundings provide an upper air data set which can be utilized in much the same manner as conventional radiosonde data. 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...

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