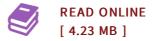# Prediction of Ruminal pH for Beef Cattle. A Physiological Modelling Approach

By Mohamed Sarhan

GRIN Verlag Gmbh Mrz 2015, 2015. Taschenbuch. Book Condition: Neu. 213x152x15 mm. Neuware - Diploma Thesis from the year 2015 in the subject Agrarian Studies, grade: 108/110, Université Paul-Valéry Montpellier 3 (Institut National de la Recherche Agronomique), course: Management of Animal Resources and Sustainable Development in Agriculture, language: English, abstract: Ruminal fluid pH (RpH) is an important parameter for controlling the rumen functions. The ability to predict the RpH of beef cattle fed a given diet without depending on the invasive techniques for its measurements (i.e., rumen cannula) is important to avoid ruminal acidosis. The objectives of this research were to: (i) identify key variables that have a significant associations with RpH; (ii) collect data points (DB) from in-vivo beef cattle studies to identify suitable predictors of RpH after considering the animal measures and the dietary variables from a wide range of diets that can safely be fed to beef cattle; (iii) evaluate the extant RpH models relevant to the study; and (iv) develop a new statistical models for mean RpH predictions. Therefore, feed additives (i.e., monensin) were excluded from the analysis. Models tested that use physically effective fiber (peNDF) as a dependent variable were Pitt et al. (1996, PIT),...

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