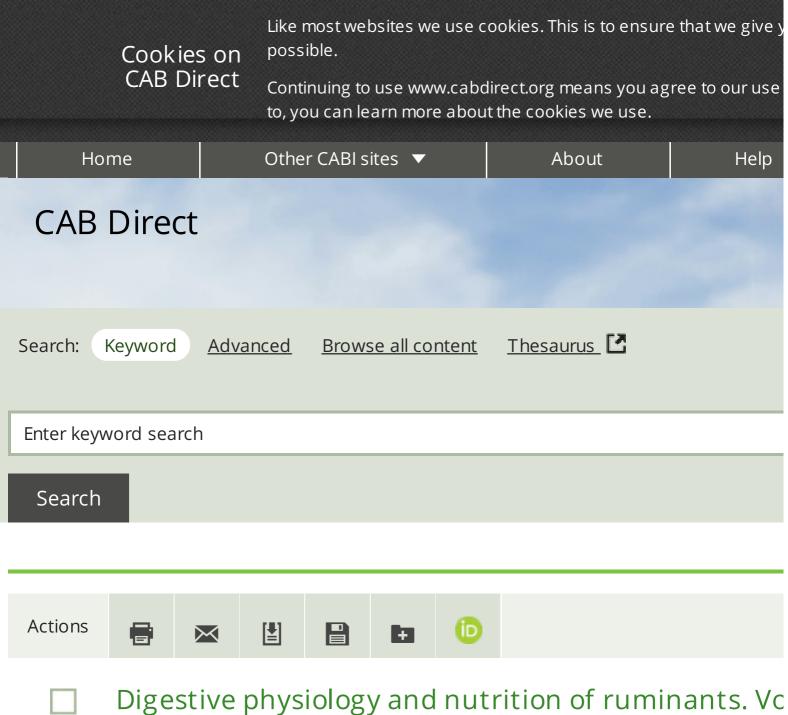
Digestive physiology and nutrition of ruminants. Volume 2. Nutrition.

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Digestive physiology and nutrition of ruminants. Vo Nutrition.

Author(s): Church, D. C.

Book: <u>Digestive physiology and nutrition of ruminants</u>. Volume 2. Nutrition. 1979 + 452pp.

Abstract: The production of the second edition of the second volume of w become established as a most useful text will be welcomed by students and workers alike. The small criticisms made of the presentation of the first edit largely been met in the standards of the materials, and the hard covers sho problems of the first edition copies which tended to wear out (itself a comp

usefulness of the book). Once again the use of very clear diagrams and goo photographs aid the clarity of the text enormously. The material presented edition has been considerably expanded. A number of chapters have been for wider coverage. For instance, the chapter entitled "The requirements fo carbohydrates and vitamins; development of purified diets" has been divide separate topics. The coverage of the book is very wide; from the often ignored water metabolism through metabolism in the gut and tissues to the require specific nutrients. The addition of the chapters on carbohydrate metabolism Weekes) and energy metabolism (A.J.F. Webster) enhance the balance and that treatment of energy metabolism is given in terms of both ME and DE. T if the book is to be of international use. However, one slight disadvantage is use of the calorie as the unit of energy. The section (W.G. Bergen) on the ir between nutrients is a welcome addition as it highlights some of the most a remaining in the accurate assessment of dietary requirements. From an edu of view the book should be of great value to post-graduate students who v specialise in nutrition. The cost of the volume is so modest that one can rec purchase without too much feeling of guilt. The one, possibly inevitable, dra book as far as undergraduates are concerned is a tendency to refer to wor Volume 1, making the purchase of both volumes essential. J.M. Chesworth.< para>ADDITIONAL ABSTRACT:<new para>This is the 2nd edition of the volu published in 1971. Each chapter has concise, comprehensive and well writte which give historical, theoretical and practical perspectives on the topics dis Chapters are as follows. Introduction (pp. 1-3). Water (pp. 4-24, 127 ref.). N metabolism and requirements, by D. C. Church & J. P. Fontenot (pp. 25-55, 3 macro minerals, by J. P. Fontenot & D. C. Church (pp. 56-99, 365 ref.). The tr by D. C. Church, S. L. Hansard, J. K. Miller & P. D. Whanger (pp. 100-166, 583) utilization and requirements (pp. 167-186, 155 ref.). Carbohydrate metabolis Weekes (pp. 187-209, 141 ref.). Energy metabolism and requirements, by A (pp. 210-229, 42 ref.). Vitamins (pp. 230-257, 262 ref.). Nutrition of prerumi Walker (pp. 258-280, 174 ref.). Taste, appetite and regulation of energy bal control of food intake, by D. C. Church (part I) & C. A. Baile (part II) (pp. 281-3 Milk fever ketosis, by L. H. Schultz (pp. 321-340, 79 ref.). Magnesium tetany calculi, by D. C. Church & J. P. Fontenot (pp. 341-355, 160 ref.). Mineral toxicit 74 ref.). Livestock poisoning by plants, by L. F. James (pp. 366-382, 63 ref.). environmental stress on nutritional physiology, by D. R. Ames (pp. 383-399, Effect of miscellaneous stress on nutrition (pp. 400-429, 268 ref.). Nutrient nutrient-hormonal and nutrient-genetic interaction, by W. G. Bergen (pp. 43 ref.). Purified diets, by G. E. Smith & L. A. Muir (pp. 442-447, 55 ref.). The fir

in particular, which consider requirements factorially, contain special discuss

metabolism and requirements of lactating cows.

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