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Abstract : The production of the second edition of the second volume of what has become established as a most useful text will be welcomed by students and researchers alike. The small criticisms made of the presentation of the first edition have largely been met in the standards of the materials, and the hard covers should avoid the problems of the first edition copies which tended to wear out (itself a compliment to...
Once again the use of very clear diagrams and good photographs aid the clarity of the text enormously. The material presented in the first edition has been considerably expanded. A number of chapters have been split to allow for wider coverage. For instance, the chapter entitled "The requirements for carbohydrates and vitamins; development of purified diets" has been divided into separate topics. The coverage of the book is very wide; from the often ignored topic of water metabolism through metabolism in the gut and tissues to the requirements for specific nutrients. The addition of the chapters on carbohydrate metabolism (T.E.C. 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. However, one slight disadvantage is the continued use of the calorie as the unit of energy. The section (W.G. Bergen) on the interaction between nutrients is a welcome addition as it highlights some of the most acute problems remaining in an accurate assessment of dietary requirements. From an educational point of view the book should be of great value to postgraduate students who wish to specialise in nutrition. The cost of the volume is so modest that one can recommend its purchase without too much feeling of guilt. The one, possibly inevitable, drawback to the book as far as undergraduates are concerned is a tendency to refer to work covered in Volume 1, making the purchase of both volumes essential. J.M. Chesworth.

ADDITIONAL ABSTRACT:

This is the 2nd edition of the volume first published in 1971. Each chapter has concise, comprehensive and well-written reviews which give historical, theoretical and practical perspectives on the topics discussed. Chapters are as follows. Introduction (pp. 1-3). Water (pp. 4-24, 127 ref.). Nitrogen metabolism and requirements, by D. C. Church & J. P. Fontenot (pp. 25-55, 311 ref.). The macro minerals, by J. P. Fontenot & D. C. Church (pp. 56-99, 365 ref.). The trace elements by D. C. Church, S. L. Hansard, J. K. Miller & P. D. Whanger (pp. 100-166, 583 ref.). Lipid utilization and requirements (pp. 167-186, 155 ref.). Carbohydrate metabolism, by T. C. Weekes (pp. 187-209, 141 ref.). Energy metabolism and requirements, by A.J.F. Webster (pp. 210-229, 42 ref.). Vitamins (pp. 230-257, 262 ref.). Nutrition of preruminants, by D. M. Walker (pp. 258-280, 174 ref.). Taste, appetite and regulation of energy balance, by D. C. Church (part I) & C. A. Baile (part II) (pp. 281-320, 211 ref.). Milk fever ketosis, by L. H. Schultz (pp. 321-340, 79 ref.). Magnesium tetany and urinary calculi, by D. C. Church & J. P. Fontenot (pp. 341-355, 160 ref.). Mineral toxicity (pp. 356-365, 74 ref.). Livestock poisoning by plants, by L. F. James (pp. 366-382, 63 ref.). Effects of 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. 430-447, 55 ref.). Purified diets, by G. E. Smith & L. A. Muir (pp. 442-447, 55 ref.). The first 8 chapters in particular, which consider requirements factorially, contain special discussion...
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