



The Ruminant Nutrition System

By Luis O. Tedeschi, Danny G. Fox

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The purpose of the Ruminant Nutrition System (RNS) software is to integrate and apply current scientific knowledge and to encourage creative and innovative ideas to solve practical feeding and nutrition problems. This is accomplished by using the accumulated scientific knowledge to establish relational and conceptual links among key variables and quantify their values. The foremost goal in developing the RNS was to provide a framework that could be used for incorporating and implementing new scientific knowledge and submodels to more accurately predict nutrient requirements and biological values for ruminants currently used in food production. The ultimate purpose is to improve animal productivity and profitability while reducing nutrient excretion per unit of production.

This book is intended for teaching and research by faculty and graduate students at the master or doctoral levels in life sciences, animal science, wildlife and fisheries sciences, ecosystem science and management, veterinary medicine, and biology and zoology. This book will also be of use to practicing nutritionists who are seeking advanced information on applied ruminant nutrition (in cattle, sheep, and goats) and to understand biological and nutritional modeling of nutrient requirements by ruminants and nutrients supplied by feedstuffs undergoing ruminal fermentation, postruminal digestion, and absorption.

The goals of this book on ruminant nutrition science are to document information, share knowledge, stimulate thinking and discussions, provoke criticism to build a better system, challenge the system with new discoveries, and foster learning by young students and teaching of scientists for the future.

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- Rank: #1621785 in Books
- Published on: 2016-10-14
- Binding: Hardcover
- 578 pages

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Editorial Review

About the Author

Luis Tedeschi is a professor in the Department of Animal Science at the Texas A&M University. He received his Bachelor of Science degree in Agronomy Engineering and his Master of Science degree in Animal and Forage Sciences from the University of São Paulo, and his Doctor of Philosophy degree in Animal Science from Cornell University. Prior to joining Texas A&M University in 2005, he held a research associate position at Cornell University. He teaches several courses related to ruminant animals for undergraduate and graduate students. His research focuses on the integration of accumulated scientific knowledge of ruminant nutrition to solve contemporary problems.

Danny Fox is a professor emeritus of the Department of Animal Science at Cornell University. He received his Bachelor of Science, Master of Science, and Doctor of Philosophy degrees from The Ohio State University. At Cornell University, Fox conducted research in cattle nutrition and taught courses in cattle nutrition and nutrient management. Before joining the faculty at Cornell, he held positions as a beef cattle extension feedlot specialist at South Dakota State University and Michigan State University. His 35 years of research at these three land grant universities focused on the development of data, methods, models, and computer programs to predict cattle nutrient requirements, as well as nutrients derived from feeds to meet cattle requirements in unique production situations.

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