

Advances in poultry nutrition

Edited by Professor Todd J. Applegate, University of Georgia, USA



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Advances in poultry nutrition

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Description:

Poultry nutrition faces many challenges, including the need to meet the changing requirements of growing birds whilst also avoiding over-nutrition and nutrient losses which can be both environmentally and economically damaging. With the sector also facing increasing pressure to reduce its reliance on antibiotics, a greater understanding of the poultry gut, its function and its role in optimising overall bird health is required.

Advances in poultry nutrition provides a detailed overview of the physiology of feed intake in broiler production, focussing on recent advances in nutrient requirements, poultry digestive physiology and the genetic factors which can affect feed conversion efficiency in broilers. The collection also reviews the nutritional value of poultry feed and the range of in vivo and in vitro techniques used to measure factors which can influence its value, such as feed digestibility and metabolizable energy.

Key features:

- Reviews the development of novel feed sources as feed for poultry, focussing on the use of essential oils, macroalgae, microalgae and corn fermented protein
- Addresses the recent advances in understanding the role of individual nutrients and additives in poultry nutrition
- Considers the range of methods and techniques implementable to maintain the safety of poultry feed and prevent mycotoxin contamination

Audience:

University and other researchers in poultry and veterinary science, animal nutritionists, feed manufacturers, advisors consulting poultry farmers on aspects of health and nutrition, as well as government and private sector agencies supporting sustainable poultry production

Editor details:

Dr Todd Applegate is Head of Department and R. Harold and Patsy Harrison Professor of Poultry Science at the University of Georgia, USA. He is a Fellow and former President of the Poultry Science Association (PSA). Amongst other honours, he is a recipient of the PSA's Evonik Degussa Award for Achievement in Poultry Science. Professor Applegate has edited two previous books for Burleigh Dodds Science Publishing: *Achieving sustainable production of poultry meat Volume 2: Breeding and nutrition* and *Achieving sustainable production of poultry meat Volume 3: Health and welfare*, both published in 2017.

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