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Nutrient Requirements of Swine

Eleventh Revised Edition *National Academies Press*

Since 1944, the National Research Council has published 10 editions of the Nutrient Requirements of Swine. This reference has guided nutritionists and other professionals in academia and the swine and feed industries in developing and implementing nutritional and feeding programs for swine. The swine industry has undergone considerable changes since the tenth edition was published in 1998

and some of the requirements and recommendations set forth at that time are no longer relevant or appropriate. The eleventh revised edition of the Nutrient Requirements of Swine builds on the previous editions published by the National Research Council. A great deal of new research has been published during the last 15 years and there is a large amount of new information for many nutrients. In addition to a thorough and current evaluation of the literature on the energy and nutrient requirements of swine in all stages of life, this volume includes information about feed ingredients from the biofuels industry and other new ingredients, requirements for digestible phosphorus and concentrations of it in feed ingredients, a review of the effects of feed additives and feed processing, and strategies to increase nutrient retention and thus reduce fecal and urinary excretions that could contribute to environmental pollution. The tables of feed ingredient composition are significantly updated. Nutrient Requirements of Swine represents a comprehensive review of the most recent information available on swine nutrition and ingredient composition that will allow efficient, profitable, and environmentally conscious swine production.

Nutrient Requirements of Swine *National Academies Press*

Each of these popular handbooks contains comprehensive information on the nutritional needs of domestic animals and includes extensive tabular data. All are paperback and 8 1/2 x 11. Some books come with diskettes or CDs that allow users to predict nutrient requirements of specific animals under various conditions and at various life stages.

Swine Nutrition *Butterworth-Heinemann*

Swine Nutrition is a comprehensive text-reference that deals with the various aspects and knowledge in swine nutrition. The book is basically about nutrient utilization by swine. The topics discussed concerning this subject are factors influencing swine nutrition, nutrient bioavailability, appetite and feeding behavior, physical forms of feed, environment and management, immunocompetence, genetic and sex considerations, mycotoxins, and intestinal microbiology. Major and unique feedstuffs, feeding regimen in different stages of growth, and techniques in swine nutrition research are also elaborated. The text will be useful to students of advance swine nutrition courses as well as those seeking information in swine nutrition.

Diseases of Swine *John Wiley & Sons*

Provides a fully revised Eleventh Edition of the definitive reference to swine health and disease Diseases of Swine has been the definitive reference on swine health and disease for over 60 years. This new edition has been completely revised to include the latest information, developments, and research in the field. Now with full color images throughout, this comprehensive and authoritative resource has been redesigned for improved consistency and readability, with a reorganized format for more intuitive access to information. Diseases of Swine covers a wide range of essential topics on swine production, health, and management, with contributions from more than 100 of the foremost international experts in the field. This revised edition makes the information easy to find and includes expanded information on welfare and behavior. A key reference for anyone involved in the swine industry, Diseases of Swine, Eleventh Edition: Presents a thorough revision to the gold-

standard reference on pig health and disease Features full color images throughout the book Includes information on the most current advances in the field Provides comprehensive information on swine welfare and behavior Offers a reorganized format to make the information more accessible Written for veterinarians, academicians, students, and individuals and agencies responsible for swine health and public health, *Diseases of Swine*, Eleventh Edition is an essential guide to swine health.

Nutrient Requirements of Beef Cattle

Eighth Revised Edition *National Academies Press*

Since 1944, the National Research Council (NRC) has published seven editions of the *Nutrient Requirements of Beef Cattle*. This reference has guided nutritionists and other professionals in academia and the cattle and feed industries in developing and implementing nutritional and feeding programs for beef cattle. The cattle industry has undergone considerable changes since the seventh revised edition was published in 2000 and some of the requirements and recommendations set forth at that time are no longer relevant or appropriate. The eighth revised edition of the *Nutrient Requirements of Beef Cattle* builds on the previous editions. A great deal of new research has been published during the past 14 years and there is a large amount of new information for many nutrients. In addition to a thorough and current evaluation of the literature on the energy and nutrient requirements of beef in all stages of life, this volume includes new information about phosphorus and sulfur contents; a review of nutritional and feeding strategies to minimize nutrient losses in manure and reduce greenhouse gas production; a discussion of the effect of feeding on the nutritional quality and food safety of beef; new information about nutrient metabolism and utilization; new information on feed additives that alter rumen metabolism and postabsorptive metabolism; and future areas of needed research. The tables of feed ingredient composition are significantly updated. *Nutrient Requirements of Beef Cattle* represents a comprehensive review of the most recent information available on beef cattle nutrition and ingredient composition that will allow efficient, profitable, and environmentally conscious beef production.

Voluntary feed intake in pigs *Wageningen Academic Publishers*

Understanding voluntary feed intake of pigs enables the precise formulation of pig feeds, ensuring the ingestion of sufficient but not excessive amounts of nutrients to optimise performance. This reference textbook, based on scientific results covers all aspects of feed intake in pigs. It contains up-to-date reviews by renowned scientific experts on different aspects affecting voluntary feed intake and diet selection in pigs. Different physiological factors involved in feed intake regulation, ranging from the sensorial evaluation of feeds, to the hormonal and metabolic regulation of feed intake and the impact of pig health are discussed. The book also deals with aspects such as genetic background of the animals, feeder design, feed manufacturing technology and the use of models to predict feed intake. This book is intended for academics, researchers, students and industry professionals involved in the field of pig nutrition and pig production.

Feed efficiency in swine *Springer Science & Business Media*

'Feed efficiency in swine' has been prepared as a comprehensive treatise on the current state of our understanding of this topic which is so important to the pork industry. Each chapter is written by international authorities who understand both the science and application of their topic area. The book provides detailed insight into the many factors affecting feed efficiency, ranging from diet processing to herd health, from nutrition to physiology and from day-to-day barn management to the adoption of advanced technologies. The authors explain such practical aspects as the challenge of interpreting feed efficiency information obtained on farm or the role of liquid feeding. The authors also delve into more scientific topics such as amino acid or energy metabolism or animal physiology. This book is written for people who have a technical interest in pork production, including nutritionists, geneticists, farm management specialists, veterinarians, other academics and, of course, pork producers.

Handbook of Nutrition and Food *CRC Press*

The new edition of the *Handbook of Nutrition and Food* follows the format of the bestselling earlier editions, providing a reference guide for many of the issues on health and well being that are affected by nutrition. Completely revised, the third edition contains 20 new chapters, 50 percent new figures, and updates to most of the previously existi

The Vitamins

Fundamental Aspects in Nutrition and Health *Academic Press*

The *Vitamins: Fundamental Aspects in Nutrition and Health*, Fifth Edition, provides the latest coverage of the biochemistry and physiology of vitamins and vitamin-like substances. Health-related themes present insights into the use of vitamins, not only for general nutritional balance, but also as a factor in the prevention and/or treatment of specific health issues, such as overall immunity, inflammatory diseases, obesity, and anemia. Readers will gain an understanding of the roles vitamins play in gene expression and epigenetics, providing important information on the further development of personalized medical treatments that will also allow them to establish appropriate dietary programs based on individual genetic profiles. This cohesive, well-organized presentation of each vitamin includes key words, case studies, and coverage of the metabolic functions of appropriate vitamins. The readability of this complex content is highly regarded by students, instructors, researchers, and professionals alike. Includes diagnostic trees for vitamin deficiencies to help readers visually understand and recognize signs of specific deficiencies Updated tables and figures throughout serve as quick references and support key takeaways Provides learning aids, such as call-out boxes to increase comprehension and retention of important concepts

Feed efficiency in swine *Wageningen Academic Publishers*

'Feed efficiency in swine' has been prepared as a comprehensive treatise on the current state of our understanding of this topic which is so important to the pork industry. Each chapter is written by international authorities who understand both the science and application of their topic area. The

book provides detailed insight into the many factors affecting feed efficiency, ranging from diet processing to herd health, from nutrition to physiology and from day-to-day barn management to the adoption of advanced technologies. The authors explain such practical aspects as the challenge of interpreting feed efficiency information obtained on farm or the role of liquid feeding. The authors also delve into more scientific topics such as amino acid or energy metabolism or animal physiology. This book is written for people who have a technical interest in pork production, including nutritionists, geneticists, farm management specialists, veterinarians, other academics and, of course, pork producers.

Fundamentals of Applied Animal Nutrition CABI

If you have ever wondered why animals prefer some foods and not others, how poor feeding management can cause conditions such as laminitis, rumenitis or diarrhoea, or how to construct a diet to optimise animal performance and health, then this book will introduce you to the fundamentals of animal nutrition and their practical implementation. With its evidence-based approach and emphasis on the practical throughout, this is a valuable textbook for undergraduate and graduate animal science students studying the feeding of farm animals. It is also an essential reference for early practitioners, veterinarians, farm managers and advisers in animal feed companies.

Animal Nutrition

From Theory to Practice CSIRO PUBLISHING

Nutrition is the key driver of animal health, welfare and production. In agriculture, nutrition is crucial to meet increasing global demands for animal protein and consumer demands for cheaper meat, milk and eggs and higher standards of animal welfare. For companion animals, good nutrition is essential for quality and length of life. Animal Nutrition examines the science behind the nutrition and feeding of the major domesticated animal species: sheep, beef cattle, dairy cattle, deer, goats, pigs, poultry, camelids, horses, dogs and cats. It includes introductory chapters on digestion and feeding standards, followed by chapters on each animal, containing information on digestive anatomy and physiology, evidence-based nutrition and feeding requirements, and common nutritional and metabolic diseases. Clear diagrams, tables and breakout boxes make this text readily understandable and it will be of value to tertiary students and to practising veterinarians, livestock consultants, producers and nutritionists.

Nutritional Modelling for Pigs and Poultry CABI

Modelling is a useful tool for decision making in complex agro-industrial scenarios. Containing a selection of the papers presented at the International Symposium of Modelling in Pig and Poultry Production 2013, this book brings together the best and most recent academic work on modelling in the pig and poultry industry, with a particular emphasis on nutrition. It reviews basic modelling concepts, descriptions and applications of production models and new methods and approaches in modelling.

The gestating and lactating sow Wageningen Academic Publishers

The last book on the lactating sow was published over 15 years ago. This new book brings us up to date in current knowledge on the gestating and lactating sow. It covers new and important topics such as conditioning of gilts for optimal reproductive performance, feeding high fibre diets to gestating sows and providing various fat sources in gestation and lactation. It also describes the several key success factors to group-housing systems in gestation, which is a must due to the current move towards group-housing. The new concept of transition feeding for sows is discussed, as well as the factors involved in mammary development of gilts and sows, both of which are instrumental for maximum colostrum and/or milk yields. The impact of the human-animal interactions on sow welfare and performance is discussed with focus on new handling practices that could be developed to overbalance the negative interactions inherent to pig management systems. Updates on must-have topics, such as amino acid and energy requirements of sows, colostrum and milk yield and composition, and sow health are also provided. The subjects covered in this book will assist animal scientists, nutritionists, veterinarians and swine producers in learning the most recent information on relevant and current topics affecting sow production, and in knowing which areas are in need of further research efforts.

Nutrition in the Regulation of Muscle Development and Repair Frontiers Media SA

Clinical Laboratory Animal Medicine

An Introduction John Wiley & Sons

The revised fifth edition of Clinical Laboratory Animal Medicine: An Introduction is an accessible guide to basic information for conducting animal research safely and responsibly. It includes a review of the unique anatomic and physiologic characteristics of laboratory animals, husbandry practices, and veterinary care of many animals frequently used in research, including rodents, rabbits, ferrets, zebrafish, nonhuman primates, and agricultural animals. The updated fifth edition adds two new chapters on zebrafish and large animals, new information on transgenic models and genetic editing, and expanded coverage of environmental enrichment and pain management. The book presents helpful tip boxes, images, and review questions to aid in comprehension and learning, and a companion website provides editable review questions and answers, instructional PowerPoints, and additional images not found in the book. This important text: • Provides a complete introduction to laboratory animal husbandry, diseases, and treatments • Offers a user-friendly format with helpful content that highlights important concepts • Contains new knowledge relating to technical methodologies, diseases, drug dosages, laws and regulations, and organizations • Covers information on regulations, facilities, equipment, housing, and research variables as well as veterinary care • Includes new chapters on zebrafish and cattle, sheep, goats, and pigs Written for veterinary technicians, veterinary students, practicing veterinarians, and research scientists, the fifth edition of Clinical Laboratory Animal Medicine continues to offer an essential guide to the ethical treatment and anatomic and physiological characteristics of research animals.

Applied Food Protein Chemistry *John Wiley & Sons*

Food proteins are of great interest, not only because of their nutritional importance and their functionality in foods, but also for their detrimental effects. Although proteins from milk, meats (including fish and poultry), eggs, cereals, legumes, and oilseeds have been the traditional sources of protein in the human diet, potentially any proteins from a biological source could serve as a food protein. The primary role of protein in the diet is to provide the building materials for the synthesis of muscle and other tissues, and they play a critical role in many biological processes. They are also responsible for food texture, color, and flavor. Today, food proteins are extracted, modified, and incorporated into processed foods to impart specific functional properties. They can also have adverse effects in the diet: proteins, such as walnuts, pecans, almonds, and cashews, soybean, wheat, milk, egg, crustacean, and fish proteins can be powerful allergens for some people. Applied Food Protein Chemistry is an applied reference which reviews the properties of food proteins and provides in-depth information on important plant and animal proteins consumed around the world. The book is grouped into three sections: (1) overview of food proteins, (2) plant proteins, and (3) animal proteins. Each chapter discusses world production, distribution, utilization, physicochemical properties, and the functional properties of each protein, as well as its food applications. The authors for each of the chapters are carefully selected experts in the field. This book will be a valuable reference tool for those who work on food proteins. It will also be an important text on applied food protein chemistry for upper-level students and graduate students of food science programs.

Animal Feeding and Nutrition *Kendall/Hunt Publishing Company*

Happy Pigs Taste Better

A Complete Guide to Organic and Humane Pasture-Based Pork Production *Chelsea Green Publishing*

What does it take to raise a happy pig? Armed with experience from running the largest organic hog operation in Maine, author Alice Percy is well equipped to answer this question. Pigs are much closer to their cousin, the wild boar, than other domesticated animals. Ethically managing pigs requires an understanding of their natural mannerisms, including factors such as social grouping, mating, territory, housing, and, of course, their love of wallowing in the mud. In Happy Pigs Taste Better Percy offers a comprehensive look at raising organic, pasture-fed, gourmet meat. She advises readers on pasturing and feeding hogs organically, as well as managing the breeding herd and administering effective natural healthcare. In addition, she provides an overview of marketing and distribution for those looking to turn their hog farming operation into a lucrative business. This book is the first of its kind to offer an in-depth approach to organic, high-welfare commercial production, including information on: - Designing a hog business from the ground up - Housing pigs, including benefits and drawbacks of various housing systems - Evaluating the nutritional content of common organic feedstuffs - Butchering humanely and economically - Recordkeeping, with templates for financial tracking Whether you're looking to convert a conventional operation to organic, grow your backyard hog operation into a viable business, or start from scratch, this comprehensive book has

got you covered, nose to tail.

Phytate destruction - consequences for precision animal nutrition *Wageningen Academic Publishers*

Incorporating research chapters from academic authors around the world, this book focuses on the most recent scientific advances in understanding phytate; both IP6 and its esters. It examines phytate degradation patterns in the gastrointestinal tract, and investigates the relevance of gut microbiome and endogenous phosphatases on phytate breakdown, as well as regulation and functions of inositol diphosphates IP3, IP4, and IP7, IP8. It also identifies recommendations for formulating for minerals and amino acids in the presence of phytate, including the effects of phytase on protein bioavailability, and the impact of digestible Ca and P in both swine and poultry. This leading science and research is coupled with real-world pragmatism, including a focus on what industry stakeholders are currently doing to counter dietary phytate, and an overview of the role of nutrition in respect of bone health, meat quality, welfare, and antibiotic free production. As such, the content is relevant for scientists, nutritionists and producers alike.

Feeding Strategies to Improve Sustainability and Welfare in Animal Production *MDPI*

This book contains the scientific contributions published within the Animals topical collection "Feeding Strategies to Improve Sustainability and Welfare in Animal Production". Originally a Special Issue, it has turned into a permanent collection, with its first article being published in July 2019 and more than 30 published articles a year later: evidence of the great interest from the scientific community regarding the topics addressed. The articles, which are grouped by species (poultry, ruminants, pigs, etc.) and by topic, deal with a wide range of arguments that, first of all, highlight the extraordinary complexity and diversity that exists in the animal production sector, and then, the great influence that nutrition and feeding can have in terms of optimizing the use of environmental resources and improving the welfare of farmed animals. In addition, all this is closely connected with the urgent need to safeguard the resources of the planet on which we live.

Lawrie's Meat Science *Woodhead Publishing*

Lawrie's Meat Science, Eighth Edition, provides a timely and thorough update to this key reference work, documenting significant advances in the meat industry, including storage and preservation of meat, the eating quality of meat, and meat safety. The book examines the growth and development of meat animals, from the conversion of muscle to meat and eventual point of consumption. This updated volume has been expanded to include chapters examining such areas as packaging and storage, meat tenderness, and meat safety. Furthermore, central issues such as the effects of meat on health and the nutritional value of meat are analyzed. Broadly split into four sections, the book opens with the fundamentals behind the growth of meat animals. The second section covers the storage and spoilage of meat products, with the third section exploring the eating quality of meat, from flavor to color. The final section reviews meat safety, authenticity, and the effect of meat on health. Encompasses the recognized gold-standard reference for the meat industry Brings together leading experts in each area, providing a complete overview of the meat sciences Includes all the

latest advances, bringing this new edition completely up-to-date, including developments in meat quality, safety, and storage

Genomics of Bacterial Metal Resistance *MDPI*

The importance of understanding metal-microbe interactions underlies a number of social-economic issues in the world. The antimicrobial resistance era has created a need for novel antimicrobials and within this field metal and metalloid ions are promising solutions. Pollution sites, either co-contaminated with metals or with metals as the sole pollutant, contain microbes that are present as key participants, with both of these issues having links to agriculture. Microbes also play key roles in the global geochemical cycle of many elements. Such statements solidify the need to understand metal-microbe interactions. Given that genomics has arguably become the most useful tool in biology, the application of this technology within the field of understanding metal resistance comes as no surprise. Whilst by no means comprehensive, this book provides examples of the applications of genomic approaches in the study of metal-microbe interactions. Here, we present a collection of manuscripts that highlights some present directions in the field. The book starts with a collection of three papers evaluating aspects of the genomics of the archetype metal resistant bacteria, *Cupriavidus metallidurans*. This is followed by four studies that evaluate the mechanisms of metal resistance. The next two papers assess metal resistance in agricultural related situations, including a review on metal resistance in *Listeria*. The book concludes with a review on metal phytoremediation via *Rhizobia* and two subsequent studies of metal biotechnology relevance.

Nutrient Requirements of Fish *National Academies Press*

Using the latest research in fish nutrition, this volume revises and combines the 1981 edition on coldwater fish and the 1983 edition on warmwater fish and shellfish. In addition to updating requirements for energy, protein, minerals, and vitamins, this book provides, for the first time, summary tables on nutrient requirements of a variety of fish species, including channel catfish, rainbow trout, Pacific salmon, carp, and tilapia. Tabular data on amino acid requirements of 11 species are also included. Shellfish are not included in this edition because of lack of scientific information.

Mycoplasmas in Swine *CABI*

Swine can be infected with many different mycoplasmas. Some are important pathogens, causing significant health and welfare issues in pigs and major losses to the swine industry worldwide. Other mycoplasmas are not pathogenic for swine and can be considered commensals. This book provides up-to-date scientific, clinical and practical information of the most important pathogenic mycoplasmas in swine. Most emphasis has been placed on *Mycoplasma hyopneumoniae* as the most economically important, but other pathogenic species like *Mycoplasma hyorhinis*, *Mycoplasma hyosynoviae* and *Mycoplasma suis* are also discussed. Written by internationally renowned scientists and clinicians from all over the world, this book draws together in depth knowledge, expertise and experience in swine mycoplasmas to provide an evidence-based, academically rigorous and practical collection. It aims to serve the scientific and veterinary community and the swine industry

worldwide.

Livestock Production and Climate Change *CABI*

In a changing climate, livestock production is expected to exhibit dual roles of mitigation and adaptation in order to meet the challenge of food security. This book approaches the issues of livestock production and climate change through three sections: I. Livestock production, II. Climate change and, III. Enteric methane amelioration. Section I addresses issues of feed quality and availability, abiotic stress (heat and nutritional) and strategies for alleviation, livestock generated nitrogen and phosphorus pollution, and approaches for harnessing the complex gut microbial diversity. Section II discusses the effects of climate change on livestock diversity, farm animal reproduction, impact of meat production on climate change, and emphasising the role of indigenous livestock in climatic change to sustain production. Section III deals with the most recent approaches to amelioration of livestock methane such as breeding for low methane emissions, reductive acetogenesis, immunization/vaccine-based concepts and archaea phage therapy.

Nutrient Requirements of Small Ruminants

Sheep, Goats, Cervids, and New World Camelids [REDACTED]

Proper formulation of diets for small ruminants depends on adequate knowledge of their nutrient requirements.

Nutrition and Feeding of Organic Pigs, 2nd Edition *CABI*

Organic animal production has increased rapidly in recent years to keep up with the increasing consumer demand for organic meats. There are many guidelines and restrictions on what should go into the feedstuffs of organically farmed animals, from which difficulties arise when trying to ensure a well-balanced, nutritious diet without the use of any supplements. The book has been completely updated and revised to address how to formulate organic diets in situations where there is a declining supply of organic feed, as well as the feasibility of utilizing novel feedstuffs and their acceptability by consumers of organic meat products. Including the experiences of producers in relation to appropriate breeds and production systems for forage-based organic production, this book is an important read for researchers and students of organic food animal production, veterinary sciences and food; as well as food industry personnel and organic farmers.

Reproduction In The Dog A Tropical Approach *Xlibris Corporation*

Dog breeding has gained tremendous awareness over the last decade. In some countries it is a source of employment for many and a means of poverty alleviation. The canine industry is growing tremendously and dogs are transported across borders all year round. As a result of this fast growing industry, the treatment given to dogs keeps improving as man's awareness increases. However, majority of the literature available to dog breeders and enthusiasts are of temperate origin and as a result, information available to the tropical breeder is limited. Raising dogs in the tropics is different from the temperate regions. The outcome of inadequate information affects the

management of our canine friends. This affects the reproductive potential of dogs raised in the tropics. The environment which we give our dogs reflects on the dog's ability to exhibit its full genetic makeup. Hence, dogs might appear sterile, obese, underweight, or malnourished depending on its environment. This book, *Reproduction in the Dog: A Tropical Approach*, addresses the problems associated with dog breeding in the tropics and gives authentic information to the breeder, veterinarian, animal scientist or dog enthusiast. It covers all the reader needs to know about breeding, reproduction, artificial insemination, semen collection, handling and storage, cloning, feed composition, housing, care of dogs and lots more.

Sustainable Swine Nutrition *John Wiley & Sons*

Finding sustainable means of swine nutrition is important to both pork industry personnel and the environment alike. This reference comprehensively covers the most recent advancements in sustainability that results in more efficient diets, thus reducing both production costs and waste. Chapters include information on alternative feedstuffs, feed additives, bioavailability of nutrients, and management of wastes and odors. Written by internationally recognized experts in the field, *Sustainable Swine Nutrition* will be a valuable reference for those involved in all aspects of pork production. Comprehensively covers the most recent advancements in sustainability to promote reduced pork production costs and waste. Covers recent topics such as alternative feedstuffs, feed additives, and bioavailability. Discusses environmental topics such as waste and odor management. Written by an international team of experts in the field.

Triumph's Complete Review of Dentistry *Wolters kluwer india Pvt Ltd*

This preparatory manual is a single source reference for postgraduate exam preparation. Intense efforts have gone in preparation of the book to make it complete in all aspects. In-depth coverage of every subject in the form of synopsis is the highlight of the book. To enhance rapid reading, quick learning facts have been framed as an effective learning tool. Multiple-choice questions have been designed to suit both national and international competitive postgraduate entrance examinations.

Handbook Of Applied Animal Nutrition Textbook Student Edition *IBDC Publishers*

Tables of composition and nutritional value of feed materials

Pigs, poultry, cattle, sheep, goats, rabbits, horses and fish *Wageningen Academic Publishers*

This book is the result of collaborative work between INRA and the Association Française de Zootechnie (AFZ). The tables in this book present the chemical composition and nutritional values of the feed materials fed to the main farm species. The feed materials included in this publication are used both in the formulation of compound feeds and as straight feedstuffs (concentrates and by-products). The values of chemical composition were mainly obtained using field data collected by AFZ from laboratories specialising in animal feeding (the data base includes over one million values). The nutritional values result principally from experimental work performed by INRA and its partners. The data used take into account the evolution in feed materials and nutritional concepts. Important

characteristics have been introduced, namely net energy for pigs (growing pigs and sows), amino acid digestibility, mineral availability and starch degradability for ruminants. In the present context of animal feeding and the new challenges that it faces (product quality and safety, animal health and welfare, environmental issues), this publication provides a reliable scientific reference document for feed manufacturers, veterinarians, extension officers, farmers, lecturers and students. Daniel Sauvant is professor of animal sciences at INA P-G, director of the Physiology of Nutrition and Feeding Research Unit at INRA/INA P-G, president of AFZ and a member of the expert committee on Animal Feeding at AFSSA. Jean-Marc Perez is deputy director of the Animal Physiology and Livestock Systems Department at INRA and scientific director of the journal *INRA Productions Animales*. Gilles Tran is the French Feed Database project manager at AFZ.

Amino Acid

New Insights and Roles in Plant and Animal *BoD - Books on Demand*

Amino Acid - New Insights and Roles in Plant and Animal provides useful information on new aspects of amino acid structure, synthesis reactions, dietary application in animals, and metabolism in plants. Section 1 includes chapters that describe the therapeutic uses, antiallergic effects, new aspects in the D-amino acid structure, historical background of desmosines, and stereoselective synthesis of γ -aminophosphonic acids. Section 2 presents the role of amino acids in plants, which includes new insights and aspects of D-amino acids, metabolism and transport in soybean, changes during energy storage compound accumulation of microalgae, and determination of amino acids from natural compounds. Section 3 describes the chapters on methodologies and requirement of dietary amino acids for Japanese quails, laying hens, and finishing pigs. The final chapter identifies potential importance of glutathione S-transferase activity for generating resistance to triclabendazole in *Fasciola hepatica*.

Nutrition Experiments in Pigs and Poultry

A Practical Guide *CABI*

This practical research text provides an invaluable resource for all animal and veterinary scientists designing, analysing and interpreting results from nutrition and feed experiments in pigs and poultry. The emphasis throughout is on practical aspects of designing nutrition experiments. The book builds on the basics and proceeds to describe the limitations of experiment design involving different ingredients. It goes on to describe the characterization of experimental diets including ingredient selection, composition and the minimum proximate analysis required. The text details measurements and the tools available for understanding diverse data sets, data analysis and eventual publication of the research. This fully balanced and extensively referenced, yet practical, text is an invaluable resource to all animal, veterinary and biomedical scientists involved in the designing of nutrition experiments in pigs and poultry, and the publication of their research.

Nutritional Intervention for the Intestinal Health of Young Monogastric Animals *Frontiers*

Media SA

Diseases of Swine *John Wiley & Sons*

Provides a fully revised Eleventh Edition of the definitive reference to swine health and disease Diseases of Swine has been the definitive reference on swine health and disease for over 60 years. This new edition has been completely revised to include the latest information, developments, and research in the field. Now with full color images throughout, this comprehensive and authoritative resource has been redesigned for improved consistency and readability, with a reorganized format for more intuitive access to information. Diseases of Swine covers a wide range of essential topics on swine production, health, and management, with contributions from more than 100 of the foremost international experts in the field. This revised edition makes the information easy to find and includes expanded information on welfare and behavior. A key reference for anyone involved in the swine industry, Diseases of Swine, Eleventh Edition: Presents a thorough revision to the gold-standard reference on pig health and disease Features full color images throughout the book Includes information on the most current advances in the field Provides comprehensive information on swine welfare and behavior Offers a reorganized format to make the information more accessible Written for veterinarians, academicians, students, and individuals and agencies responsible for swine health and public health, Diseases of Swine, Eleventh Edition is an essential guide to swine health.

Nutrition and Feeding of Organic Poultry, 2nd Edition *CABI*

Organic poultry production has increased significantly in recent years to keep up with increasing consumer demand for organic eggs and meat. There are many guidelines and restrictions on what should go into the feedstuffs of organically farmed poultry, from which difficulties arise when trying to ensure a well-balanced nutritious diet without the use of any unapproved supplements. This, the second edition of Robert Blair's classic and bestselling book on the nutrition and feeding of organic poultry, presents advice for organic producers, and the agencies and organizations serving them. It covers: - selecting suitable ingredients; - preparing appropriate feed mixtures and integrating them

into organic poultry production systems; - international standards of organic feeding; - breeds that are most suitable for organic farming; - examples of diets formulated to organic standards. Completely updated and revised to address how to formulate organic diets in situations where there is a declining supply of organic feed, this new edition also includes up-to-date information on the nutritional requirements of poultry and feed-related disease incidence in organic flocks. Also including the feasibility of utilizing novel feedstuffs, such as insect meal, and their acceptability by consumers of organic meat products, this book forms a comprehensive reference for students and researchers of poultry science, organic farmers and veterinarians.

Potbellied Pig Veterinary Medicine - E-Book *Elsevier Health Sciences*

Comprehensive coverage addresses the essential topics of potbellied pig veterinary care, helping you properly care for these animals within a veterinary practice. Coverage of key aspects of potbellied pig care includes physical examinations, diseases, behavior, husbandry, handling/restraint, surgery, and much more. More than 150 clinical photos show a wide variety of potbellied pigs and treatment scenarios. Enhanced eBook is included with the purchase of a new print copy of the book, providing online access to a fully searchable version of the text and making its content available on various devices. Single-source review provides an all-in-one reference on the care of potbellied pigs. Expert author Kristie Mozzachio has worked with potbellied pigs for more than 25 years, including a mobile veterinary service that specializes in potbellied pigs, and consults both nationally and internationally.

Amino Acids in Higher Plants *CABI*

Amino acids play a role in the defence mechanisms and stress responses of plants, as well as in food quality and safety for humans and animals. Recent advances in the field make a comprehensive overview of the information a necessity; this book collates chapters on plant enzymes and metabolism, modulation, molecular aspects and secondary products. Also including information on ecology, the environment and mammalian nutrition and toxicology, it provides an authoritative resource.