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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.

Nutrient Requirements of Swine: Eleventh Revised Edition ...

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Nutrient Requirements of Swine, 11th Revised Edition ...

This eleventh revised edition of the Nutrient Requirements of Swine builds on the previous editions published by the National Research Council. The tenth edition,¹ in particular, provided a major foundation for the current edition. Although a great deal of new research has been published during the last 15 years and there is a large amount of new

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Nutrient Requirements of Swine, Eleventh Revised Edition ...
National Research Council (NRC) (2012) Nutrients Requirements
of Swine. 11th Edition, National Academy Press, Washington DC.
has been cited by the following article: TITLE: Microbial
Fermentation Patterns, Diarrhea Incidence, and Performance in
Weaned Piglets Fed a Low Protein Diet Supplemented with
Probiotics

National Research Council (NRC) (2012) Nutrients ...
Nutrient Requirements of Swine (Eleventh Revised Edition) A
committee of 10 members will be appointed to undertake the
analysis of swine nutrition. During the course of three or four
meetings, the members of the committee will conduct a

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comprehensive review of the scientific literature and relevant sources of data on swine nutrient

Nutrient Requirements of Swine (Eleventh Revised Edition) nutrients that pigs require to meet the needs for maintenance, growth, production, reproduction, and other functions. Generally, pigs require six classes of nutrients: carbohydrates, proteins, fats, minerals, vitamins, and water. In animal populations and particularly in swine production, it is essential to distinguish between requirements and recommendations: " Nutritional requirements: are determined for

SWINE NUTRITION GUIDE GENERAL NUTRITION PRINCIPLES Swine ...

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Nutrient Requirements of Swine: Eleventh Revised Edition
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. This eleventh revised edition builds on the previous editions published by the National Research Council. The swine industry has undergone considerable changes since the tenth edition was published in 1998 and some of

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the requirements and recommendations ...

Nutrient Requirements of Swine [11th Revised edition]

Swine require six general classes of nutrients: water, carbohydrates, fats, protein (amino acids), minerals, and vitamins. Energy, although not a specific nutrient, is an important nutritional component and is primarily derived from the oxidation of carbohydrates and fats.

Nutritional Requirements of Pigs - Management and ...

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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.

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

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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

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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.

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.

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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.

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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.

Aquaculture now supplies half of the seafood and fisheries products consumed worldwide and is gaining international significance as a source of food and income. Future demands for seafood and

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fisheries products can only be met by expanded aquaculture production. Such production will likely become more intensive and will depend increasingly on nutritious and efficient aquaculture feeds containing ingredients from sustainable sources. To meet this challenge, Nutrient Requirements of Fish and Shrimp provides a comprehensive summary of current knowledge about nutrient requirements of fish and shrimp and supporting nutritional science. This edition incorporates new material and significant updates to information in the 1993 edition. It also examines the practical aspects of feeding of fish and shrimp. Nutrient Requirements of Fish and Shrimp will be a key resource for everyone involved in aquaculture and for others responsible for the feeding and care of fish and shrimp. It will also aid scientists in developing new and improved approaches to satisfy the demands of the growing

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aquaculture industry.

This classic reference for poultry nutrition has been updated for the first time since 1984. The chapter on general considerations concerning individual nutrients and water has been greatly expanded and includes, for the first time, equations for predicting the energy value of individual feed ingredients from their proximate composition. This volume includes the latest information on the nutrient requirements of meat- and egg-type chickens, incorporating data on brown-egg strains, turkeys, geese, ducks, pheasants, Japanese quail, and Bobwhite quail. This publication also contains new appendix tables that document in detail the scientific information used to derive the nutrient requirements appearing in the summary tables for each species of bird.

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Proper formulation of diets for horses depends on adequate knowledge of their nutrient requirements. These requirements depend on the breed and age of the horse and whether it is exercising, pregnant, or lactating. A great deal of new information has been accumulated since the publication 17 years ago of the last edition of Nutrient Requirements of Horses. This new edition features a detailed review of scientific literature, summarizing all the latest information, and provides a new set of requirements based on revised data. Also included is updated information on the composition of feeds, feed additives, and other compounds routinely fed to horses. The effects of physiological factors, such as exercise,

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and environmental factors, such as temperature and humidity, are covered, as well. Nutrient Requirements of Horses also contains information on several nutritional and metabolic diseases that horses often have. Designed primarily as a reference, both practical and technical, Nutrient Requirements of Horses is intended to ensure that the diets of horses and other equids contain adequate amounts of nutrients and that the intakes of certain nutrients are not so excessive that they inhibit performance or impair health. This book is primarily intended for animal nutritionists, veterinarians, and other scientists; however, individual horse owners and managers will also find some of this material useful. Professors who teach graduate courses in animal nutrition will find Nutrient Requirements of Horses beneficial as a textbook.

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Excess minerals in the diet and water of animals can have an adverse effect on animal health, consumers, and the environment. Preventing unsafe mineral exposure is a fundamental part of animal nutrition and management. At the request of the Food and Drug Administration, the National Academies convened a committee to make recommendations on animal tolerances and toxic dietary levels, updating a 1980 report on mineral tolerance in domestic animals. Based on a review of current scientific data and information, the report sets a "maximum tolerable level" (MTL) for each mineral as it applies to the diets of farm animals, poultry, and fish. The report includes an analysis of the effects of toxic levels in animal diets, and it identifies elements that pose potential human health concerns. The report recommends research that includes a better characterization of animal exposure to minerals through

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feedstuffs; a better understanding of the relationship between mineral concentrations in feed and water and the levels in consumer products such as meat, milk, and eggs; and more research on the maximum tolerable level of minerals for aquatic and companion animals.

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

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feeding of farm animals. It is also an essential reference for early practitioners, veterinarians, farm managers and advisers in animal feed companies.

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

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advance swine nutrition courses as well as those seeking information in swine nutrition.

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