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the latest edition of this classic text now in a larger format with improved artwork continues to provide a clear and comprehensive introduction to the science and practice of animal nutrition animal nutrition covers four main areas chapters 1 9 explain the basic chemistry and biochemistry of feed constituents digestion and metabolism chapters 10 18 evaluate the energy and nutrient content of feedstuffs and discuss the assessment of nutritional requirements and ration formulation chapters 19 25 describe the characteristics of commonly used feedstuffs such as forages concentrates and by products and the appendix provides comprehensive tables on the composition of foods and feeding standards for dairy and beef cattle sheep pigs and poultry and horses

this classic text has been reorganised to provide a clear and comprehensive introduction to the science and practice of animal nutrition animal nutrition is split into six main sections covering the components of food the digestion and metabolism of nutrients quantifying the nutrient content of foods digestibility energy and protein values the nutrient requirements of animals the nutritional characteristics of foods and animal products and human nutrition the appendices provides comprehensive tables on the composition of foods and feeding standards for dairy and beef cattle sheep pigs and poultry and horses the full text downloaded to your computer with ebooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends ebooks are downloaded to your computer and accessible either offline through the bookshelf available as a free download available online and also via the ipad and android apps upon purchase you ll gain instant access to this ebook time limit the ebooks products do not have an expiry date you will continue to access your digital ebook products whilst you have your bookshelf installed

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

recent research in the field of animal science has focused on advances in molecular biology particularly in the study of gene expression epigenetics and gene editing and exciting advances have been made however knowledge of animal biochemistry and nutrition is still essential if we are to understand the significance and efficient application of these new findings to further improve animal production health and welfare the application of research and advice in animal nutrition continues to be at the centre of efficient animal production research in dog and cat nutrition has also progressed since the last edition and information in this area has been expanded in this new edition we have retained the early chapters on basic food chemistry and animal biochemistry to provide a quick reference to questions pertaining to the discipline of nutrition chemistry in later parts of the book we have also taken the opportunity to introduce nutritional topics related to molecular biology and the environment each chapter now has a set of questions to assist with revision of the chapter topic and the appendix tables have been revised where new data are available two significant events have occurred since the last edition in 2016 the british society of animal science recognised the 50th anniversary of the publication of the first edition of animal nutrition by awarding framed certificates of congratulation to the original three authors peter mcdonald james greenhalgh and alun edwards then in 2018 came the sad news that peter mcdonald had died although peter had not been actively involved in the production of recent editions of the book he had always shown great interest in its progress fittingly peter s funeral service was conducted by another eminent animal nutritionist

rev dr neville suttie the production of this edition was assisted by comments and suggestions received from reviewers and we welcome comments from readers as with previous editions we are grateful to colleagues for their helpful discussions

first multi year cumulation covers six years 1965 70

animal nutrition science introduces the fundamental topics of animal nutrition in a treatment which deals with terrestrial animals in general the subjects covered include nutritional ecology and the evolution of feeding styles nutrients including minerals vitamins and water and their functions food composition and methods of evaluating foods mammalian and microbial digestion and the supply of nutrients control and prediction of food intake quantitative nutrition and ration formulation methods of investigating nutritional problems nutritional genomics nutrition and the environment and methods of feed processing and animal responses to processed foods publisher s description

the primary purpose of each of the subsequent chapters of this book is to promulgate quantitative approaches concerned with elucidating mechanisms in a particular area of the nutrition of ruminants pigs poultry fish or pets given the diverse scientific backgrounds of the contributors of each chapter the chapters in the book are arranged according to subject area the imposition of a rigid format for presenting mathematical material has been eschewed though basic mathematical conventions are adhered to

the second edition of principles of animal nutrition presents comprehensive coverage of nutrition and metabolism in ruminants nonruminant mammals e g swine and horses and poultry as well as aquatic and companion animals substantially revised expanded and updated to reflect scientific advances including the use of artificial intelligence in diet formulations and feeding this book highlights the foundational aspects of nutrition that are essential to animal growth development reproduction lactation health and survival the book contains an overview of the physiological and biochemical bases of animal nutrition followed by a detailed description of chemical properties of carbohydrates lipids protein and amino acids the text also covers the digestion absorption transport and metabolism of macronutrients energy vitamins and minerals

in animals to integrate the basic knowledge of nutrition with practical animal feeding the book continues with a discussion of the nutritional requirements of animals for maintenance production and health as well as the regulation of food intake by animals finally the chapters explain feed additives including those used to enhance animal growth and survival e g enzymes amino acids organic acids and animal co products improve feed efficiency for protein production replace feed antibiotics and promote circular bio economies written by a distinguished professor of animal nutrition guoyao wu phd principles of animal nutrition second edition is the authoritative reference for academic researchers practitioners and beginners in the fields of animal and human nutrition biomedicine and allied health as well as institutional and government policymakers

zoo animals behaviour management and welfare is the ideal resource for anyone needing a thorough grounding in this subject whether as a student or as a zoo professional

understand the dietary needs and processes of animals with this comprehensive resource animal nutrition is a single reference volume gathering the latest research into animal nutritional needs digestion and metabolism a seminal new addition to the decorated nutrition society textbook series animal nutrition covers the nutritional needs of companion animals and livestock as well as providing detail on a variety of connected subjects the book discusses the nutritional needs and characteristics of different species reproduction husbandry and how nutrition can significantly impact animal quality of life and veterinary outcomes written for the benefit of students researchers and practitioners alike this accessible text offers foundational discussions of both theory and practice the result is a book which promises to rejuvenate the teaching of this critical field animal nutrition readers will also find detailed discussion of topics including feed enzymes monogastric and ruminant nutrition macronutrients and more an authorial team comprised of leading researchers and instructors a focus throughout on sustainable animal husbandry and care animal nutrition is the essential introduction for undergraduate and postgraduate students of animal biology or veterinary care as well as an ideal reference for researchers and veterinarians

includes subject section name section and 1968 1970 technical reports

this volume of the series handbook of zoology deals with the anatomy of the gastrointestinal digestive tract stomach small intestine caecum and colon in all eutherian orders and suborders it presents compilations of anatomical studies as well as an extensive list of references which makes widely dispersed literature accessible introductory sections to orders and suborders give notice to biology taxonomy biogeography and food of the respective taxon it is a characteristic of this book that different sections of the post oesophageal tract are discussed separately from each other informations on form and function of organs of digestion in eutherians are discussed under comparative anatomical aspects the variability and diversity of anatomical structures represents the basis of functional differentiations

recent advances in animal nutrition 1992 is an annual review of the changes and updates in the field of animal nutrition especially progresses in the study of feeds the book is divided into four parts part i discusses topics related to nutrition in non ruminant animals while part ii covers ruminant nutrition part iii tackles studies about general nutrition such as the use of growth promoters in animal feeds and predicting the response to variation and diet and part iv deals with feed compounding and its effects the text is recommended for agriculturists zoologists and those involved in the development and manufacture of feeds who would like to know more about the nutrition of agriculturally important animals

industri peternakan sapi perah adalah salah satu subsektor pertanian yang memiliki dampak signifikan terhadap lingkungan dan sumber daya alam dalam upaya untuk memenuhi permintaan akan produk susu yang semakin meningkat sering kali praktik praktik intensif yang tidak ramah lingkungan diadopsi inilah yang memicu penurunan kualitas lingkungan seperti degradasi lahan pencemaran air dan emisi gas rumah kaca salah satu permasalahan yang berkaitan dengan polusi lingkungan adalah limbah yang dihasilkan dari suatu peternakan sapi perah yang kondisinya belum terolah dan dimanfaatkan secara optimal limbah tersebut berupa sisa pakan feses dan urine yang masih berada di area peternakan pertumbuhan serta produktivitas sapi

perah sangat dipengaruhi oleh beberapa faktor yaitu pakan lingkungan dan genetik pakan merupakan komponen yang sangat penting serta membutuhkan biaya yang paling tinggi dalam operasional pemeliharaan sapi perah pemberian pakan yang berkualitas baik dan dapat mencukupi kebutuhan untuk maintenance tubuh ternak serta kebutuhan produksi susu sangat diperlukan ransum pakan yang diberikan juga perlu memperhatikan kondisi saluran pencernaan ternak sehingga penyerapan nutrisi akan berjalan dengan baik untuk itu pengetahuan mengenai saluran pencernaan ternak ruminansia sangat diperlukan untuk mengetahui kebutuhan nutrisi ternak di dalam buku ini dibahas tentang perkembangan sapi perah di Indonesia pemahaman tentang saluran pencernaan sapi perah sistem penyusunan ransum sistem evaluasi dan metode pengukuran protein ransum karakteristik kebutuhan nutrisi sapi perah serta ketersediaan pakan dan penyusunan ransum seimbang untuk sapi perah sebagai upaya penurunan polusi lingkungan

the major change in the format of the fifth edition is the presentation of the book in two volumes necessitated by the rapidly increasing knowledge of metabolism interactions and requirements of trace elements the guiding principle was to present the minimum of results that would serve as a logical foundation for the description of the present state of knowledge recent results of research were accommodated by devoting new chapters to the subjects methodology of trace element research and quality assurance for trace element analysis and by expanding the discussion of lithium and aluminum in separate new chapters the first two subjects are of outstanding importance as determinants of future progress the concern for the quality of analytical data motivated the authors of the individual chapters to review critically and where necessary revise analytical data presented in the previous editions the rapid progress of trace analytical methodology since the mid 1970s has changed what had been accepted as normal for the concentrations of many trace elements in tissues and foods the new data reflect the present state of the art in trace element analysis but they may be subject to future revision

antimicrobial resistance is a global and increasing threat stewardship campaigns have been established and policies implemented to safeguard the appropriate use of antimicrobials

in humans animals and plants restrictions on their use in animal production are on the agenda worldwide producers are investing in measures involving biosecurity genetics health care farm management animal welfare and nutrition to prevent diseases and minimize the use of antimicrobials functional animal nutrition to promote animal health is one of the tools available to decrease the need for antimicrobials in animal production nutrition affects the critical functions required for host defence and disease resistance animal nutrition strategies should therefore aim to support these host defence systems and reduce the risk of the presence in feed and water of potentially harmful substances such as mycotoxins anti nutritional factors and pathogenic bacteria and other microbes general dietary measures to promote gastrointestinal tract health include the selective use of a combination of feed additives and feed ingredients to stabilize the intestinal microbiota and support mucosal barrier function this knowledge used to establish best practices in animal nutrition could allow the adoption of strategies to reduce the need for antimicrobials and contain antimicrobial resistance

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Introduction

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