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Pipeline Engineering (2004) John Wiley & Sons

This book provides excellent techniques for detecting and evaluating biofilms: sticky films on materials that are formed by bacterial activity and produce a range of industrial and medical problems such as corrosion, sanitary problems, and infections. Accordingly, it is essential to control biofilms and to establish appropriate countermeasures, from both industrial and medical viewpoints. This book offers valuable, detailed information on these countermeasures. It also discusses the fundamentals of biofilms, relates various substrates to biofilms, and presents a variety of biofilm reactors. However, the most important feature of this book (unlike others on the market) is its clear focus on addressing the practical aspects from an engineering viewpoint. Therefore, it offers an excellent practical guide for engineers and researchers in various fields, and can also be used as a great academic textbook.

Control of Pig Reproduction Springer

Weaning the Pig: Concepts and Consequences' is a new book that addresses the major issues surrounding the weaning process, both for piglets and the breeding herd, in modern-day pig production. The post-weaned pig presents many challenges to the manager, stockperson and nutritionist, and as such is a critical phase in the overall production system. Numerous challenges are also faced by the sow, which is required to be rebred as soon as possible after weaning. This book draws together summaries of research dealing with both piglets and the sow, and is a unique book in this regard. Accordingly, the material presented covers in detail the following areas associated with the weaning process: growth of the weaned pig, nutritional management in preparation for weaning, behavioural changes and adaptations around weaning, voluntary feed intake, digestive physiology, modulation of small intestinal integrity, the intestinal microflora and diarrhoeal diseases after weaning, intestinal immunity, nutritional requirements and intestinal requirements of the weaned pig, environmental and housing issues after weaning, saving and rearing supernumery and underprivileged piglets, and productivity and longevity of the weaned sow. The chapters have been written by acknowledged experts from around the world. The book is an ideal reference for all professions associated with the pig industry, and is invaluable as a text for students at both undergraduate and postgraduate levels.

Structural Changes in the Philippine Pig Industry and Their Environmental Implications CRC Press

Consolidates tax regulations, Orders in Council and determinations to 1 January 2013. Includes consolidated tables of depreciation rates and a summary of amendments. Livestock Environmental Assessment and Performance Partnership Proceedings of the 2021 International Petroleum and Petrochemical Technology Conference Control of Pig Reproduction focuses on carefully evaluated techniques and technologies involved in the control of pig reproduction. The selection first ponders on the sexual development of male pigs, including early fetal, perinatal, and pubertal periods. The text also discusses testicular steroids and boar taint; interrelationships between spermatozoa, female reproductive tract, and egg investments; and artificial insemination. Discussions focus on androgens, estrogens, deposition of semen and uterine transit, sperm regulation and release by the isthmus, and types of artificial insemination. The manuscript examines endocrine control of sexual maturation in female pigs and sexual differentiation of the stimulatory estrogen feedback mechanism and factors affecting the natural attainment of puberty in gilts. Discussions focus on development of ovarian function and gonadal steroid levels; development of the stimulatory estrogen feedback mechanism; and maturation of negative feedback of gonadal steroids. The text also takes a look at controlled induction of puberty, endocrine control of the estrus cycle, and control of ovulation. The selection is a valuable reference for farmers and readers interested in pig reproduction.

Whittemore's Science and Practice of Pig Production Food & Agriculture Org. Environmental Aspects of Housing for Animal Production is concerned with environmental aspects of housing farm animals. The discussions are organized around physical and physiological principles; environmental influences on reproduction; environmental influences on the productivity of farm animals; optimal housing environments for temperate and cool climates; housing environments for hot climates; engineering and control of the house environment; and the constraints of welfare and disease. This text consists of 32 chapters divided into nine sections. The first chapter explores the physiological mechanisms whereby the food- or fiber-producing animals maintain a constant body temperature under climatic extremes and the possible impact that these physiological processes may have on productive systems. This discussion is followed by chapters on the influence of climate on the decision to house livestock; the effect of the environment on animal reproduction; thermal influences on poultry; and the importance of ventilation and temperature control. This text also considers the poultry housing problems in tropical and subtropical climates; insulation of animal houses; and the interaction between feathering and egg production in laying hens. This book will appeal to those working in the field of housing for animal production, both in research and development and at a practical level.

Mechanistic Modelling in Pig and Poultry Production CABI

'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. Diseases of Swine Elsevier First published in 1991. Routledge is an imprint of Taylor & Francis, an informa company. Study of Monopoly Power Gulf Professional Publishing This is a living document produced by the Livestock Environmental and Assessment Performance (LEAP) Partnership. The document presents a methodology and provides guidance for the assessment of the environmental performance of pig supply chains. It provides users guidance on how to apply the life cycle assessment approach to pig supply chains. Demand for livestock products is projected to grow 1.3 percent per year until 2050, driven by global population growth and increasing wealth and urbanization. This projected growth places significant pressure on the livestock sector to perform in a more sustainable way. Currently, many different methods are used to assess the environmental impacts and performance of livestock products. This causes confusion and makes it difficult to compare results and set priorities for continuing improvement. The intention of this document is to provide an overview assessment of existing studies and associated methods that have used life cycle assessment for the evaluation of pig supply chains. Feed efficiency in swine CABI

Vols. 1-22 include the section "Recent publications upon economics".

Pipeline Pigging Technology Springer Nature

First published in 1958, Diseases of Swine, Tenth Edition isa fully revised and updated version of this classic reference. Nowpublished in association with the American Association of SwineVeterinarians, the Tenth Edition adds new knowledge throughout in areorganized format to provide more intuitive access to information.With chapters written by more than 150 of the foremost experts inthe field, Diseases of Swine remains the premier source ofcomprehensive information on swine production, health, andmanagement for swine health specialists of all disciplines and atany level of expertise, including veterinarians, researchers, andstudents. Featuring a new content organization designed for improvednavigability, the Tenth Edition adds chapters on the cardiovascularsystem, diagnostic tests and test performance, food safety andzoonotic diseases, show and pet pigs, and the most currentinformation on both long-recognized and emerging pathogens.Diseases of Swine, Tenth Edition is an indispensableresource for anyone interested in swine health. Advances in Radiation Biology Elsevier

These proceedings contain 15 papers on the recent advances in pig and poultry mechanistic modelling. Notable among the papers is the consideration of new components of the animal production process, such as social stressors and disease. Understanding of some new systems such as the physiological control of egg production in hens by modelling is the given focus in one paper. The topics covered in the other papers include the following: introduction to modelling in the animal sciences, different approaches to modelling animal systems; basic concepts describing animal growth and feed intake; modelling populations for purposes of optimization; advancements in empirical models for prediction and prescription; nutrient flow models, energy transactions and energy feed systems; evaluation of animal genotypes through model inversion; considerations for representing microenvironmental conditions in simulation models for broiler chickens; use of physiological models to define environmental control strategies; comparison of pig growth models from the genetic point of view; model of metabolism in the sow; and place of models in the new technologies of production systems. Proceedings of the 2014 International Conference on Energy and Environment (ICEE 2014), June 26-27, Beijing, China Routledge

Pig Production in Australia is a comprehensive book that presents the aspects and advances on Australian pig production. The text contains chapters on a very wide variety of topics relevant to the pig production industry. There are sections on production aspects of the industry such as genetics, reproduction, marketing, education and training and financial management. There is a comprehensive section on health and disease aspects. Other sections relevant to consumers such as the nutritional value and quality of pig meat and those factors which influence them are detailed. There is also coverage of important issues such as housing, waste disposal, the use of agricultural and veterinary chemicals, and animal welfare. The book will be invaluable to pig producers, academics and researchers, and extension workers.

Summaries of Tariff Information: pt.1. Metal and manufactures, principally pig iron, ferrous scrap, and ferro-alloys Intl Food Policy Res Inst Advances in Radiation Biology, Volume 12, provides an overview of the state of knowledge in the field of radiation biology. Environmental matters are continuing to produce surprises and remain sources of concern. The safe disposal of radioactive waste still is a major problem facing the nuclear power industry. A possible solution is discussed here. New information about the survivors from radiation exposure at Hiroshima and Nagasaki has emphasized the consequences of brain damage in the developing embryo, the importance of late radiation carcinogenesis, and the roles played by age and sex in human radiation responses. It also is prompting an increasing number of scientists involved in radiation protection to question the use of small animal models to quantify late radiation effects in humans. Contributions to this volume deal with experimental and other aspects of those problems. Finally, increasing confirmation of the dose rate response for densely ionizing radiations has highlighted the hazard they pose to humans in the terrestrial and extraterrestrial environments. Therefore, the intention of agencies in the United States and elsewhere to generate better funded and more scientifically perspicacious programs of space radiation biology is welcome. Possible interests of the military in that regard are also considered.

Prerefining Pig Iron with a Vortex Cone John Wiley & Sons

The 2014 International Conference on Energy and Environment (ICEE 2014) was held June 26-27 in Beijing, China. The objective of ICEE 2014 was to provide a platform for researchers, engineers, academics as well as industry professionals from all over the world to present their research results and development activities in Energy and Environment res

The Genetics of the Pig CRC Press

Cooperatives and cooperative payment schemes, cost, and profit sharing rules are found in all sectors of society – including law and consultancy, insurance and finance, health, housing, utility, and, of course, agriculture. This book develops an economic framework for assessing different cooperative payment schemes. First, a number of relevant criteria (properties) are defined, then the book analyzes how well different schemes fulfill these criteria under alternative production and market conditions. The book is aimed at professionals involved in the design and use of payment schemes, as well as students and researchers at universities. The book includes a number of practical examples from the agro-industrial sector. The criteria and schemes are also illustrated with simple numerical examples and graphics. For the more technically minded, there are specially highlighted sections containing formalized mathematical presentations.

A Practical Guide to Profit Gulf Professional Publishing

Key features: Contains the contributions of international experts from the UK, USA, Australia, Spain and Taiwan Includes over 1,500 high-quality illustrations Maintaining the health of pigs is vital in pig farming and production. This new book written by experts from around the world focuses on the health of pigs, first with coverage of the disorders of pigs organised by clinical sign and body system. The book explores environmental medicine and then health maintenance. Treatment options are discussed, emphasizing a reduction in antimicrobial use and an increased awareness of a holistic approach to treatment. The book includes over 1,500 high-quality illustrations to enhance the clinical description, as well as a wealth of high-quality videos to test the reader in making differential diagnoses with treatment options. Quizzes at the end of each section also encourage reflective learning. Clinical examination of the individual pig and groups are covered along with environmental medicine, making this the ideal reference for veterinary practitioners and students. Those interested in population medicine (poultry, aquaculture, cattle and small ruminant and apiaries) will particularly enjoy the holistic approach to veterinary medicine. All those who appreciate the many talents of pigs will enjoy the practical approach to managing the health of their animals. This book moves veterinary science forward, promoting health rather than treating disease. It will be your number one reference for keeping your pigs healthy.

Formation and Control of Biofilm in Various Environments Nottingham University Press

This book adopts a linear optimization method and introduces a dynamic optimization simulation model for analyzing synthetic environmental policies as endogenous variables in order to improve the environment and provide more biomass energy. The model considers both the total ecological system and the socio-economic situational changes. The purpose of the research is to establish effective utilization methods for biomass resources as well as to coordinate resource reutilization, environmental conservation and economic development, and ultimately to achieve sustainable development of society. By selecting for examination a typical suburb of a major city in China (Miyun County near Beijing), the book improves the simulation model and focuses on the evaluation of water pollutant minimization based on the ecological value of Miyun Reservoir. In the simulation, the author takes into account the specific and unique characteristics of China ' s economy and social state in terms of sustained economic growth rate, financial subordination relations and regional environmental policies, all of which differ from the model for Japan. Beyond these innovations, the book introduces two advanced technologies from Japan and China to the study area through simulation with integrated policies, and presents a regional analysis and allocation strategy for these technologies, which have demonstrated impressive operability in practice, in light of the current conditions and limited funds in China.

Modern Pig Production Technology ILRI (aka ILCA and ILRAD)

Recent Developments in Pig Nutrition shows the updates in the nutrition and the evaluation of energy needs in raising and breeding pigs. The book covers the energy requirement of pigs; the effects of climatic variables on the nutrition and energy of pigs; and the prediction of energy content in pig feeds. The availability and importance of proteins and amino acids in pig feeds are also discussed. The text also explains the importance of vitamins and minerals in the diet of pigs; the nutritional needs of the different sexes of pigs and piglets; and the processing and evaluation of cereals for pig diets. The monograph is recommended for those in piggery business, who want to know more about the importance of pig nutrition and be updated with the different findings in the field. The book will also be good for animal nutritionists who concern themselves with pig feeds and for veterinarians who specialize in pigs.

Energy and Environment CRC Press

The 2016 2nd International Conference on Energy Equipment Science and Engineering (ICEESE 2016) will be held on November 12-14, 2016 in Guangzhou, China. ICEESE 2016 is to bring together innovative academics and industrial experts in the field of energy equipment science and engineering to a common forum. The primary goal of the conference is to promote research and developmental activities in energy equipment science and engineering and another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working all around the world. The conference will be held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas.

Weaning the pig Springer Nature

Pigs are snug-fitting plugs which are able to perform various maintenance tasks such as cleaning or removing deposits or blockages in pipe and pipeline systems from the inside. A gaseous or liquid propellant is used to push the pig through the system. This strategy avoids rinsing loss of valuable product, provides reduction of adverse environmental impacts, and gains high efficiency for less investment. The book describes clearly and methodically the important basic equipment required for the planning and design of pigging units. Many practical examples are shown for the operation of industrial pigging units, drawn from the authors' longtime experience in this technology. In this form and scope the book is an unrivaled presentation of this technology. Engineers and chemists who plan, construct, operate and maintain production plants in the chemical, food, cosmetics, pharmaceutical and petrochemical industry will find an invaluable source of advice and reference for pigging units.