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'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.

Maintenance combines various methods, tools, and techniques in a bid to reduce maintenance costs while increasing the reliability, availability, and security of equipment. Condition-based maintenance (CBM) is one such method, and prognostics forms a key element of a CBM program based on mathematical models for predicting remaining useful life (RUL). Prognostics and Remaining Useful Life (RUL) Estimation: Predicting with Confidence compares the techniques and models used to estimate the RUL of different assets, including a review of the relevant literature on prognostic techniques and their use in the industrial field. This book describes different approaches and prognosis methods for different assets backed up by appropriate case studies. FEATURES Presents a compendium of RUL estimation methods and technologies used in predictive maintenance Describes different approaches and prognosis methods for different assets Includes a comprehensive compilation of methods from model-based and data-driven to hybrid Discusses the benchmarking of RUL estimation methods according to accuracy and uncertainty, depending on the target application, the type of asset, and the forecast performance expected Contains a toolset of methods and a way of deployment aimed at a versatile audience This book is aimed at professionals, senior undergraduates, and graduate students in all interdisciplinary engineering streams that focus on prognosis and maintenance.

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.

Authors have attempted to create coherent chapters and sections on how the fundamentals of maintenance cost should be organized, to present them in a logical and sequential order. Necessarily, the text starts with importance of maintenance function in the organization and moves to life cycle cost (LCC) considerations followed by the budgeting constraints. In the process, they have intentionally postponed the discussion about intangible costs and downtime costs later on in the book mainly due to the controversial part of it when arguing with managers. The book will be concluding with a short description of a number of sectors where maintenance cost is of critical importance. The goal is to train the readers for a deeper study and understanding of these elements for decision making in maintenance, more specifically in the context of asset management. This book is intended for managers, engineers, researchers, and practitioners, directly or indirectly involved in the area of maintenance. The book is focused to contribute towards better understanding of maintenance cost and use of this knowledge to improve the maintenance process. Key Features: • Emphasis on maintenance cost and life cycle cost especially under uncertainty. • Systematic approach of how cost models can be applied and used in the maintenance field. • Compiles and reviews existing maintenance cost models. • Consequential and direct costs considered. • Comparison of maintenance costs in different sectors, infrastructure, manufacturing, transport.

Over the last decade, several large-scale United States and international programs have been initiated to incorporate advances in molecular and cellular biology, -omics technologies, analytical methods, bioinformatics, and computational tools and methods into the field of toxicology. Similar efforts are being pursued in the field of exposure science with the goals of obtaining more accurate and complete exposure data on individuals and populations for thousands of chemicals over the lifespan; predicting exposures from use data and chemical-property information; and translating exposures between test systems and humans. Using 21st Century Science to Improve Risk-Related Evaluations makes recommendations for integrating new scientific approaches into risk-based evaluations. This study considers the scientific advances that have occurred following the publication of the NRC reports Toxicity Testing in the 21st Century: A Vision and a Strategy and Exposure Science in the 21st Century: A Vision and a Strategy. Given the various ongoing lines of investigation and new data streams that have emerged, this publication proposes how best to integrate and use the emerging results in evaluating chemical risk. Using 21st Century Science to Improve Risk-Related Evaluations considers whether a new paradigm is needed for data validation, how to integrate the divergent data streams, how uncertainty might need to be characterized, and how best to communicate the new approaches so that they are understandable to various stakeholders.

As climate change has pushed climate patterns outside of historic norms, the need for detailed projections is growing across all sectors, including agriculture, insurance, and emergency preparedness planning. A National Strategy for Advancing Climate Modeling emphasizes the needs for climate models to evolve substantially in order to deliver climate projections at the scale and level of detail desired by decision makers, this report finds. Despite much recent progress in developing reliable climate models, there are still efficiencies to be gained across the large and diverse U.S. climate modeling community. Evolving to a more unified climate modeling enterprise-in particular by developing a common software infrastructure shared by all climate researchers and holding an annual climate modeling forum-could help speed progress. Throughout this report, several recommendations and guidelines are outlined to accelerate progress in climate modeling. The U.S. supports several climate models, each conceptually similar but with components assembled with slightly different software and data output standards. If all U.S. climate models employed a single software system, it could simplify testing and migration to new computing hardware, and allow scientists to compare and interchange climate model components, such as land surface or ocean models. A National Strategy for Advancing Climate Modeling recommends an annual U.S. climate modeling forum be held to help bring the nation's diverse modeling communities together with the users of climate data. This would provide climate model data users with an opportunity to learn more about the strengths and limitations of models and provide input to modelers on their needs and provide a venue for discussions of priorities for the national modeling enterprise, and bring disparate climate science communities together to design common modeling experiments. In addition, A National Strategy for Advancing Climate Modeling explains that U.S. climate modelers will need to address an expanding breadth of scientific problems while striving to make predictions and projections more accurate. Progress toward this goal can be made through a combination of increasing model resolution, advances in observations, improved model physics, and more complete representations of the Earth system. To address the computing needs of the climate modeling community, the report suggests a two-pronged approach that involves the continued use and upgrading of existing climate-dedicated computing resources at modeling centers, together with research on how to effectively exploit the more complex computer hardware systems expected over the next 10 to 20 years.

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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 emphasizing 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.

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.

As world population increases, demand for food and particularly animal products is expected to grow substantially. Because of limited area for expansion of animal agriculture and growing consumer concern for the environmental impact of animal production, gains in animal efficiency will have to be part of the solution. This book addresses key issues of how energy and protein are utilized and interact in farm animals from the molecular to the whole animal and even to the herd or group level of organization. It contains state-of-the-art research and reviews on several topics of nutrient utilization and metabolism from top scientists worldwide. Key issues addressed include energy/protein interactions, methodology such as in vitro and in vivo techniques, regulation including pre-natal programming and endocrine regulation, modeling and systems biology (including a tribute to the late Professor R. Lee Baldwin of the University of California, Davis, a leader in the field), products and health of animals, tissue metabolism, and environmental sustainability in agriculture. This book is a valuable resource for researchers, students, policy makers, producers and industry professionals believing that a better understanding of metabolism and nutrition of farm animals is part of the solution.

Assessing Nanoparticle Risks to Human Health provides a systematic overview of nanoparticle risks and considers the limitations of this paradigm in a context where extreme uncertainties prevail. As well as exploring conventional risk assessment methodology, the contributing authors investigate several alternate approaches. The adequacy of current frameworks for risk management and regulatory oversights, including corporate approaches in the US and EU, are explored, and suggestions are made as to how these frameworks can be modified to make them more efficient and effective. Presenting a coherent framework for analysis of the available information, this book presents the latest scientific understanding of the toxicity and health effects of nanoparticles, the technical issues relating to exposure assessment and management, and the ways in which the current risk paradigm can be used/modified to deal with the challenges of nanoparticle risks. All chapters of this new edition have been thoroughly updated to reflect the many changes in the field since the first edition. Additions and updates in the second edition of the book include: New exposure assessment strategies for nanomaterials including life cycle exposure assessment approaches and detailed information on nanoparticle exposure control and protection in the workplace. A state-of-the-art scientific update on the hazard and risk assessment of nanomaterials: discussion of key additional publications on the toxicology and biokinetics of nanomaterials; available data and methods to characterize the health hazard and risk of exposure to nanomaterials in the workplace; additional examples of the use of such data and methods to develop occupational safety and health guidance; and discussion of progress to date, ongoing efforts, and remaining challenges in nanomaterials hazard and risk characterization. New studies on the use of expert judgment in nanotechnology. Quantitative data from Lawrence Berkeley National Laboratory's 4-phase study. A description and evaluation of new CB tools and new ISO technical specifications. A comprehensive update of the legal frameworks in the US and the EU. With the second edition of Assessing Nanoparticle Risks to Human Health Prof. Ramachandran provides researchers and practitioners producing or using nanoparticles, or those involved in nanomaterials risk assessments, technology, health science, policy, safety, environment and regulatory aspects an invaluable reference to adopt the right technologies and strategies and to comply to legal frameworks and regulations. For policy makers and advisory firms it provides the knowledge needed to advise on compliance with or development of new regulations on nanomaterials. Makes essential reading for risk assessment professionals, companies working with nanoparticles, nanotechnology research groups and regulators Explores the use of risk assessment methodologies in an occupational health setting, and their limitations Provides a framework for evidence-based decision making in a context with many uncertainties

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