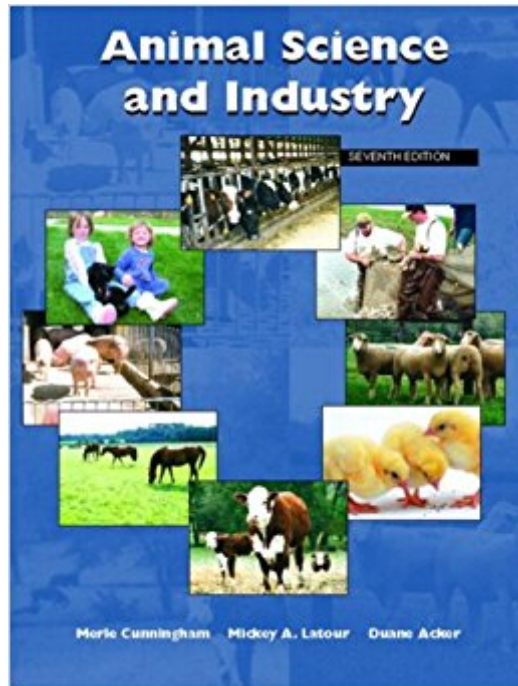


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Animal Science And Industry (7th Edition)



Synopsis

Now in its seventh edition, *Animal Science and Industry* remains an outstanding, easy to read introduction to the principles of animal science as well as the industry of animal production and management. It provides comprehensive coverage vital to the proper care and well-being of animals, including animal nutrition and digestion, environment, health, behavior, reproduction, lactation, and genetics/breeding. Also included are all aspects of specific production and management practices-as well as concepts in the marketing of animals and the processing of their products-as these aspects relate to beef, dairy, horse, poultry, sheep, swine, and aquaculture industries. Global trends in animal product consumption, to feed manufacturing, the ruminant digestive system, nutrition and feedlot management, farm animal reproduction, genes and chromosomes, the importance of milk production in different species, growth and development, marketing meat animals, the merchandising and promotion of wool, the business of producing eggs, and much more. For those in farm and animal production enterprises.

Book Information

Hardcover: 784 pages

Publisher: Pearson; 7 edition (May 30, 2004)

Language: English

ISBN-10: 013046256X

ISBN-13: 978-0130462565

Product Dimensions: 8.2 x 1.3 x 10.1 inches

Shipping Weight: 3.6 pounds

Average Customer Review: 4.1 out of 5 stars 10 customer reviews

Best Sellers Rank: #76,943 in Books (See Top 100 in Books) #72 in [Books > Textbooks > Science & Mathematics > Agriculture](#) #91 in [Books > Science & Math > Agricultural Sciences > Animal Husbandry](#) #2607 in [Books > Engineering & Transportation > Engineering](#)

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Preface FOCUS OF THIS TEXT: THE STUDENT AND THE INSTRUCTOR The principal objective of *Animal Science and Industry* is to make the introduction to animal science an enjoyable and rewarding experience for the student—one that provides a sound foundation for further learning and stimulates the student's interest in pursuing additional courses and experiences in animal sciences. This sixth edition of *Animal Science and Industry* also has two principal goals: To provide students who are not majoring in animal science and those with nonfarm backgrounds appropriate

information to understand animal agriculture and its role in our society and economy. This is a challenging goal that cannot be accomplished by use of this text alone but requires special efforts from both instructor and student. The instructor can help assure student success with well-prepared lectures, assignment of appropriate reading from the text to support lecture material, providing well-structured and organized laboratory sessions where possible, and offering timely help sessions. The student should make every effort to attend each class session, to develop an organized set of notes and supplement them with specific subject matter from the text, and to become acquainted with upcoming lecture topics by reading ahead in the text. With effort from both student and instructor, every student should be able to successfully progress through the introductory course. Then, both instructor and student will be rewarded. To provide students majoring in animal science; as well as those in preprofessional science programs; material, principles, and concepts that will better prepare them for more specialized and advanced courses. The authors greatly appreciate the role of the instructor in teaching an introductory course in animal science to students of diverse backgrounds and interests. We hope instructors will find the material in the text to be of sufficient depth and breadth and to be presented in a manner that is easy to read and understand. We have provided both basic principles of animal sciences and realistic examples of their application to efficient animal care and production in an attempt to make instruction easier and more exciting. This revised edition places emphasis upon the principles of animal science and their relationship to livestock and poultry production. Comprehensive information and discussion focuses on: (1) biological principles of animal function and management; (2) characteristics of the different animal species production systems; (3) production of high-quality animal products; meat, milk, eggs, wool; and the use of the horse for work and pleasure; and (4) systems and concepts in marketing animals and the processing of their products. Most animal science instructors have found that learning in introductory courses is more effective and the principles presented are more usable when there is a comparative basis for learning. Therefore, this book was developed to provide an integrated and comparative presentation of the scientific principles that apply to most species involved in animal agriculture, and to describe major differences among species. Animal Science and Industry, sixth edition, continues to present material in considerable scientific depth in the major disciplines of animal science, and provides coverage and updating of a broad number of topics. Research and technology have led to significant advances in animal production practices, marketing, and merchandising of products. Discussion of the more pertinent of these advances has been incorporated into selected chapters. Throughout the revision of this text, the needs of the student

has been our highest priority. The authors recognize the diverse backgrounds of students enrolled in most introductory animal science courses. Animal Science and Industry does not assume extensive acquaintance with all domesticated species or their enterprises. Therefore, it provides appropriate descriptions and vocabulary in current usage in the animal industry. This edition also contains new and challenging material for the student with a strong animal production background.

MAJOR CHANGES IN THIS EDITION Every effort has been made in this sixth edition to improve upon the strengths of earlier editions. Some of those acquainted with previous editions have expressed appreciation for the larger page size in the previous edition and this feature is continued in this sixth edition. This change provides for more pleasing organization and appearance of illustrations and tables, improved position relative to specific topics in the text, and enhanced usage of page margins. The effectiveness of this edition has been maintained by the continued use of color, endpapers containing useful charts, and a twenty-page color insert that focuses on certain topics of interest. This text resolves a problem that often confronts the instructor during the initial portion of the course as it provides an early overview of the breadth of animal science and related industries. With this approach, later discussions relating to the principles of animal science will be better appreciated and understood, hopefully by all students. Each of the major animal enterprises is briefly described in a new section of Chapter 1 so that initial coverage of specific species in separate chapters is not required. Also added to the introductory chapter are the topics of aquaculture, an overview and acquaintance with animal agriculture and animal welfare, and the challenges of maintaining a desired environment through proper animal waste management. The exciting topic of biotechnology and examples of its application in animal agriculture to increase productivity has been expanded in Chapter 2. Because aquaculture is rapidly expanding in the United States, providing an alternative enterprise for some farmers, and providing a significant portion of the human food supply, Chapter 36 has been devoted to this new topic. The principles of animal science are emphasized and applied to efficient aquaculture production. Based upon peer reviews, the authors also have chosen to expand the chapter on horses and ponies (Chapter 32) particularly in important aspects of day-to-day management. The sixth edition of Animal Science and Industry describes the important principles of animal science in each of the major disciplines: nutrition, environment, health, behavior, reproduction, lactation, genetics and breeding, products, and marketing. These principles are then applied in chapters that discuss sound production and management practices for beef cows and calves, dairy, horses and ponies, poultry (eggs, broilers, and turkeys), sheep, swine, and feeder-feedlot, and fish enterprises.

LEARNING AIDS To help students focus on important concepts and terminology, several learning aids have been

incorporated into this sixth edition. These include: Chapter Introduction. Each chapter begins with a brief introduction and overview of the chapter topic. Also provided is a list of objectives the reader should be able to accomplish—define, describe, explain—upon completion of that chapter. Review Questions. In order to emphasize important material and review of concepts and facts within each chapter, questions for study and discussion are provided at the end of each chapter. These questions are designed to encourage students to think independently, and to reinforce and retain information they have studied and encountered in lecture and laboratory sessions. Those who wish to check further their knowledge of the subject matter will find the CD packaged with this text an invaluable aid. It contains more than 1600 additional review questions (with answers), 45 for each chapter of the text. Margin Glossary. This feature has been included to place further emphasis and understanding on important terms and their definitions contained in the nearby text. The student only needs to refer to the Text Glossary in Appendix C for further description and terms not found in the margins. Vocabulary. Important new terms within each chapter are italicized and also presented in the Glossary (Appendix C) at the end of the book. Color Insert and Endpaper Tables. Review of the descriptive color plate and inside cover information enables the student to become acquainted with the various animal enterprises and their characteristics, as well as with common terminology. More effective instruction can then proceed into discussion of the major disciplines of animal science. Information Boxes. Also continued in this sixth edition are information boxes in numerous chapters. These boxes enhance the student's appreciation and understanding of topics related to the material covered in the chapters. They also are provided to increase the student's interest in particular areas of animal science. Other Aids. Several chapters refer to additional information found in Appendix A that provides sketches of market grades of livestock and Appendix B that provides illustrations of animals, their external parts and related terms. Throug --This text refers to an out of print or unavailable edition of this title.

Key Benefit: Fostering an awareness that successful animal production ventures are the result of astute and timely application of business principles, this direct and highly accessible book covers the animal industry in its totality—from global trends in animal product consumption, to feed manufacturing. **Key Topics:** Topics also covered include the ruminant digestive system, feedlot management, the importance of milk production in different species, genes and chromosomes, marketing meat animals, the merchandising and promotion of wool, the business of producing eggs, and more. The book approaches animal science from a common scientific and applied base—physiology of reproduction, genetics, growth, nutrients and their metabolism, and

behavior principles of health, etc. Market: Ideal reference for those interested and involved in the animal and science industry. --This text refers to an out of print or unavailable edition of this title.

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