

# Library Reading Guidance

DaLian Nationalities University Library

Volume 4, No.2, 2014

April, 2014

## Introduction to Physical Anthropology

**Eleventh Edition**

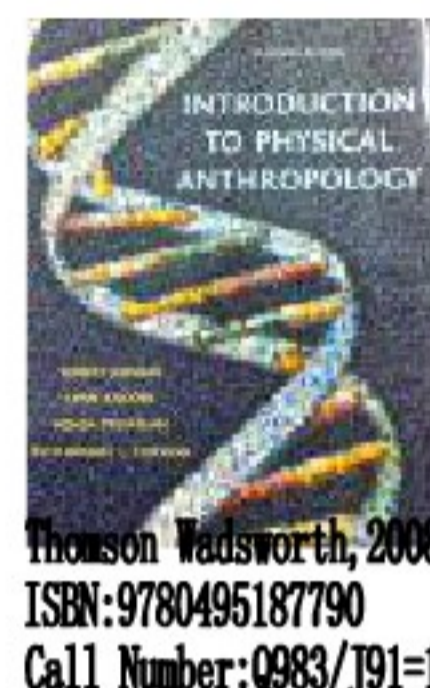
Robert Jurmain and the Others

This physical anthropology textbook is about human biology, most especially from an evolutionary perspective. Since all our main topics are biological, many are particularly prone to rapid scientific modification. Everyone is at least partly familiar with the rapid advances in DNA research, now often called “genomics.” New techniques have fueled a massive revolution in all the biological sciences, including physical anthropology. Much has changed in our field. For example, at that time the entire pattern of chimpanzee DNA (that is, the chimpanzee genome) was not yet published. Moreover, many of you saw or heard, in the fall of 2004, the announcement in the popular press of the discovery of what have been called “the hobbits,” found on an island in Indonesia. This fascinating discovery of 3-foot-tall, small-brained humans living as recently as 13,000 years ago is the most startling human evolutionary discovery in many decades.

Features:

New Frontiers Research boxes are major between-chapter features highlighting some of the newest and most innovative research in physical anthropology. Four areas of research are covered, including:

- Molecular Applications in Forensic Anthropology (following Chapter 4).
- Molecular Applications in Primatology (following Chapter 8).
- Ancient DNA (following Chapter 12).
- Molecular Applications in Modern Human Biology (following Chapter 16).



Thomson Wadsworth, 2008  
ISBN: 9780495187790  
Call Number: Q983/J91=11

## Astronomy: A Beginner's Guide to the Universe

**Fifth Edition**

Eric Chaisson, Steve McMillan



ASTRONOMY  
Prentice Hall, 2007  
ISBN: 0536263809  
Call Number: P1/C435=5

Astronomy is the study of the universe—the totality of all space, time, matter, and energy. In this book, we shall study objects housing billions upon billions of atoms, even billions of whole stars. We likewise encounter very long durations of time, some spanning millions and billions of not merely seconds or hours but billions of years. The universe is astronomical, both in space and in time. To appreciate the subject, we must broaden our views and



expand our minds. We must think big.

Part 1 of this book presents the basic methods used by astronomers to chart the space around us. We describe the slow progress of scientific knowledge, from stories of chariots and gods to today's well-tested ideas of planetary motion and quantum physics. We also delve into the microscopic realm of atoms and molecules, whose properties hold keys to understanding the universe on macroscopic scales. In later parts of this book, we shall study much larger objects, lying at incredible distances from us and existing far back in time—lighting up the far away and the long ago. Our ability to see, examine, and decipher extraterrestrial phenomena is one of the great achievements of modern science.

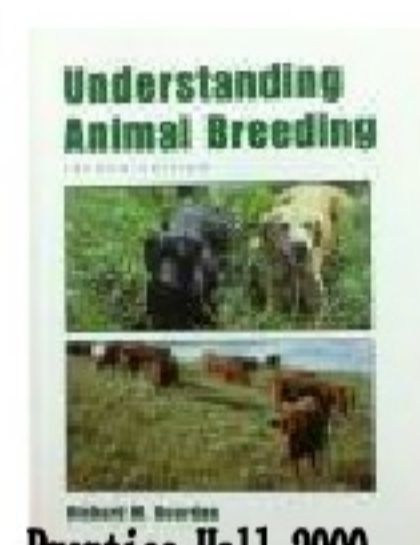
## Understanding Animal Breeding

### Second Edition

Richard M. Bourdon

This second edition continues the highly successful presentation of all concepts related to animal breeding. Keeping math to a minimum, the book requires no prior experience in genetics or statistics. It is easy to read and understand, organized in a format that stresses application before explaining theory in order to ensure a better overall understanding of the material. This “application before theory” approach gives the reader a better perspective on the application of theoretical concepts, so that the concepts then take on more meaning.

Virtually every element crucial to the successful breeding of animals is covered in this text, including Mendelian inheritance, simply inherited and polygenic traits, genetic prediction, large-scale genetic evaluation, correlated response to selection, multiple trait selection, and extensive coverage of mating systems, strategies and techniques. Diagrams are used liberally to illustrate statistical concepts. Key ideas are defined in the margins when they are first introduced in the text, and key terms are also listed in the glossary for quick reference. This Second edition provides the most technologically up-to-date information available.



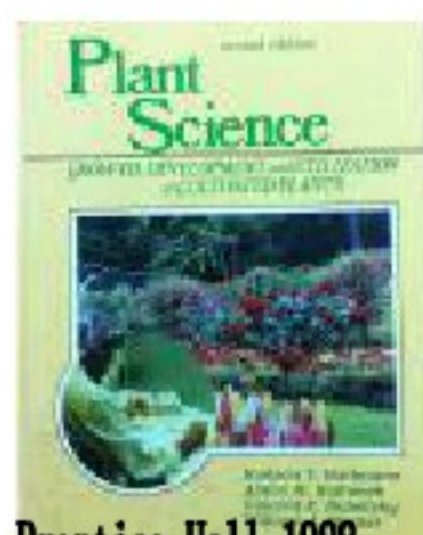
Prentice Hall, 2000  
ISBN: 0130964492 (hbk.)  
Call Number: S813/B768=2

## Plant Science:

### Growth, Development, and Utilization of Cultivated Plant

#### Second Edition

Hudson T. Hartmann and the Others



Prentice Hall, 1988  
ISBN: 0136803075 (hbk.)  
Call Number: S184/P713=2

Written so as to be easily understood by students who have little or no botanical background, the second edition of *Plant Science: Growth, Development, and Utilization of Cultivated Plant* examines the essential elements of the botany of higher plants. The book emphasizes the principles involved in the response of plants to environmental stresses and how these stresses can be modified to increase plant production.

Among the many new and retained features of this second edition, Plant Science:



- Details the new biotechnology that is rapidly becoming a part of plant science endeavors.
- Describes the importance of plants to the survival and well-being of the earth's animal population.
- Analyzes the structure and classification of plants.
- Presents information on where and how the important crop plants originated and were domesticated, and how new plants are developed.
- Covers all the methods of propagating plants.
- Examines the physiology of plants and their responses to the environment.
- Explores the horticultural crops such as tree fruits, grapes, strawberries, and the important shrubs and trees.
- Explains the principles governing the flowering of common greenhouse ornamentals.
- Surveys the fundamentals of growing lawns and the basic principles of home and community landscaping.
- Includes encyclopedic coverage of all the world's important food, forage, and fiber crops.

## Zoology

### Sixth Edition

Stephen A. Miller, John P. Harley

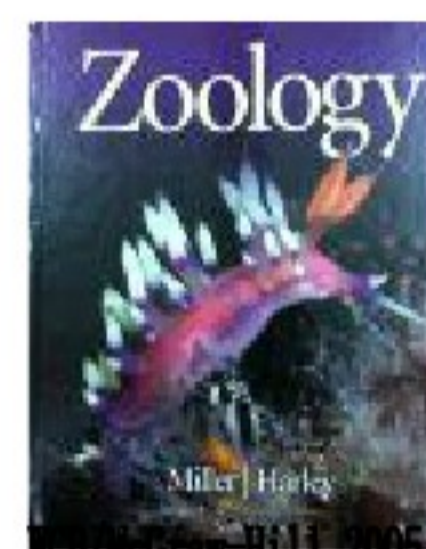
Zoology is the study of animals. It is one of the broadest fields in all of science because of the immense variety of animals and the complexity of the processes occurring within animals.

Zoology is organized into three parts. Part One covers the common life processes, including cell and tissue structure and function, the genetic basis of evolution, and the evolutionary and ecological principles that unify all life.

Part Two is the survey of protists and animals, emphasizing evolutionary and ecological relationships, aspects of animal organization that unite major animal phyla, and animal adaptations. All of the chapters in Part Two have been updated.

Part Three covers animal form and function using a comparative approach. This approach includes descriptions and full-color artwork that depict evolutionary changes in the structure and function of selected organ systems. Part Three includes an appropriate balance between invertebrate and vertebrate descriptions. The following are major additions to this edition:

- "Evolutionary Insights" boxes appear in selected chapters.
- Chapter 4 is reorganized and presents new information on the distinction between microevolution and macroevolution.
- Chapter 5 begins with an expanded presentation of populations and gene pools.
- Chapter 9 presents new information on the evolutionary relationships of the Porifera, Cnidaria, and Ctenophora.
- Chapter 13 provides an updated taxonomy of the Annelida, including the presentation of the oligochaetes and leeches as members of a single class Clitellata.
- Chapters 14 and 15 include an extensive update on arthropod taxonomy.
- Chordate taxonomy in chapters 17 through 22 has been updated.



Wiley, 2005  
 ISBN: 0072528362 (hbk.)  
 Call Number: Q95/M647-6



## Life on Earth

### Third Edition

Teresa Audesirk, Gerald Audesirk, Bruce E. Byers

This text each chapter opens with a strikingly illustrated Case Study. Our case studies are based on recent news items, on situations in which students might find themselves, or on particularly fascinating biological topics. Each Case Study is revisited at the end of the chapter, allowing students to explore the topic a bit further in light of what they have learned and, often, to find answers to questions raised in the initial study.

Throughout each chapter, our major headings pose important questions that encourage students to seek answers as they read. The full-sentence, conceptual subheadings both suggest answers to these questions and help students focus on the key points in each subsection.

We have places icons next to key illustrations, tables, and concepts. These icons direct the student to a new section called the “Media Tutor” at the end of each chapter.

We have continued to provide the popular group activities in each chapter. These exercises, used successfully by our Panel of Biology Educators, encourage students to work out interesting problems in small groups and thereby become active participants in the learning process.

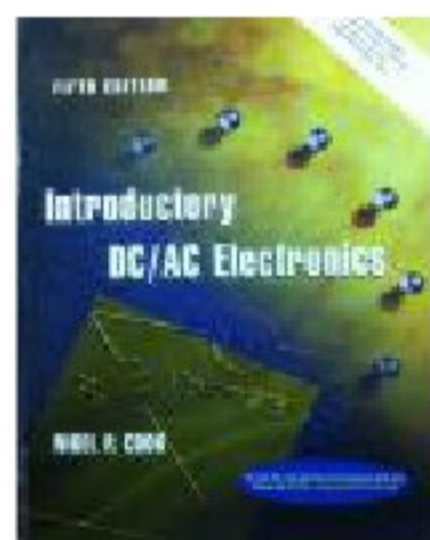
Finally, particularly where processes are illustrated, we have added annotations to figures. These annotations place descriptions of each process at the pinots where they are most needed for clarity and reduce the need for lengthy, multi-art captions.



## Introductory DC/AC Electronics

### Fifth Edition

Nigel P. Cook



Prentice Hall, 2002  
ISBN: 0130310859 (hbk.)  
Call Number: TN01/C771-5

This time-honored text, now in its fifth edition, continues to offer comprehensive and up-to-date coverage of DC/AC electronics in a style that is both easy to read and easy to understand. Appropriate for use in and DC/AC Circuits course and for some Electronic Devices courses, it provides the solid foundation so necessary for a clear understanding of the field of electronics as a whole.

This finely-tuned, carefully tested, and accuracy checked volume is organized into four section:

Part I: The Fundamentals of Electricity. Chapters 1 through 3 introduce you to the world of electronics and the fundamentals of electricity.

Part II: Direct-Current Electronics. Chapters 4 through 7 cover direct current, or dc, circuits;

Part III: Alternating-Current Electronics. Chapters 8 through 14 cover alternating current, or ac, circuits;

Part IV: Semiconductor Devices and Circuits. Chapter 15 through 20 cover semiconductor principles, devices, and circuits.