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principles of animal physiology second edition continues to set a new standard for animal physiology textbooks with its focus on animal diversity its modern approach and clear foundation in molecular and cell biology its concrete examples throughout and its fully integrated coverage of the endocrine system carefully designed full color artwork guides students through complex systems and processes while in text pedagogical tools help them learn and remember the material the book includes the most up to date research on animal genetics and genomics methods and models and offers a diverse range of vertebrate and invertebrate examples with a student friendly writing style that is consistently clear and engaging christopher moyes and patricia schulte present animal physiology in a current balanced and accessible way that emphasizes the integration of physiological systems an overarching evolutionary theme and thorough coverage of the cellular and molecular basis of animal physiology principles of animal physiology comes with a comprehensive supplements package for students and instructors that includes a new media manager cd rom a new print and computerized test bank and a powerful companion website the interactive physiology 10 system suite cd rom and physioex v7 0 laboratory simulations can be packaged with the text at a discounted price

this textbook explores the structure and function of animals readers will gain knowledge on the diversity as well as similarities of animal physiologies at the microscopic as well as macroscopic level topics include general physiology tissues and organ systems sensory reception respiration digestion etc genetics and reproduction and evolution animal physiology is the study of how animals function this volume is designed to survey molecular and cellular physiology as well as the major physiological systems and how these systems function to maintain homeostasis in various environments

here is a uniquely modern approach to the study of physiological diversity that builds on the tradition established by c ladd prosser s comparative animal physiology responding to the need for a rigorously up to date comprehensive survey of function and integrative systems in a variety of species which is also easily accessible to the user dr prosser has delivered a thoroughly revised fourth edition in a convenient two volume format this carefully designed framework lets each volume zero in on distinct aspects of comparative physiology normally studied as a whole unit from the study of genetically replicating molecules to investigations of adaptive modulation these two companion volumes offer an all encompassing view of the field with their contemporary approach scholarly editing flexible format and detailed contents neural and integrative animal physiology and environmental and metabolic animal physiology will stand together as the authoritative source in the field

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this truly comparative text takes a fundamental biophysical approach toward animal physiology students majoring in zoology biology or premedicine will study animals ranging from simple invertebrates and protozoans to complex multicellular invertebrates and vertebrates emphasis on evolution shows the progressive changes modifications and developments of physiological systems from simple to complex animals comparisons show the similarities and differences in how animals function but stress fundamentally similar adaptations in very different animals

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