

Principles Of Animal Physiology 3rd Edition

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this text book on physiology of animals is intended to be useful for elementary animal physiology course in colleges of agriculture zoology veterinary and animal sciences in all s the aim has been to present a clear and concise account of the functioning of various systems of domestic animals where appropriate examples from human and non domestic animals such as rat and rabbit have been cited physiology has now grown into a vast discipline the book covers and explains the following deeply o nature and scope of physiology o body fluids water electrolyte and acid base balance o respiration o blood o circulatory system o structure functions of the kidney o rumen function o digestion metabolism o vitamins and minerals o endocrine glands and their secretions o reproduction in the male o female reproduction o lactation o nervous system o bone skin and special senses o physiology of temperature regulation

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

animal physiology fourth edition presents all the branches of modern animal physiology with a strong emphasis on integration of physiological knowledge ecology and evolutionary biology integration extends from genes to organ systems and from one physiological discipline to another the book takes an entirely fresh approach to each topic its full color illustrations include many novel visually effective features to help students learn each of the twenty five main chapters starts with an animal example to engage student interest and demonstrate the value of the material that will be learned the book includes five additional briefer at work chapters that apply students newfound physiological knowledge

to curiosity provoking and important topics including diving by marine mammals the mechanisms of navigation and muscle plasticity in use and disuse the book is committed to a comparative approach throughout whereas mammalian physiology is consistently treated in depth emphasis is also given to the other vertebrate groups arthropods and molluscs concepts and integrative themes are emphasized while giving students the specifics they need the whole animal is the principal focus of this book the book s extensive coverage of genomics and cellular molecular biology is therefore carefully linked to whole animal biology with this edition coverage of physiologically relevant genomics has been greatly expanded the subject matter of animal physiology is also linked to topics in human affairs such as athletic training and global warming always the central organizing principle for the array of topics presented is to understand whole animals in the environments where they live complex principles are developed clearly using classroom tested pedagogy often with carefully designed conceptual illustrations concepts from chemistry physics and mathematics are explained so that the book will be accessible to science students at the sophomore or higher level pedagogical aids include embedded summaries throughout chapters study questions with online answers partially annotated reference lists an extensive glossary ten appendices covering logarithms phylogenetically independent contrasts basic physics terms etc and an upgraded index carefully worded balloons are used extensively to guide students through the interpretation of figures for all three authors teaching physiology to undergraduate students has been a lifelong priority resources for students the animal physiology companion website includes content that expands on the coverage in the textbook as well as study and review resources for students chapter outlines summaries provide quick overviews and reviews of each chapter box extensions expand on topics introduced in the textbook and cover important additional conceptual material online quizzes cover key material in each chapter these can be assigned by the instructor or used as self quizzes flashcards help students learn and review the many new terms introduced in the textbook glossary for instructors available to qualified adopters the animal physiology fourth edition instructor s resource library irl contains a wealth of resources for use in lecture development and assessment contents include presentation resources figures tables all of the textbook s figures both line art and photographs are provided as jpeg files at two sizes high resolution excellent for use in powerpoint and low resolution ideal for web pages and other uses all the artwork has been reformatted and optimized for exceptional image quality when projected in class unlabeled figures unlabeled versions of all figures are provided powerpoint

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