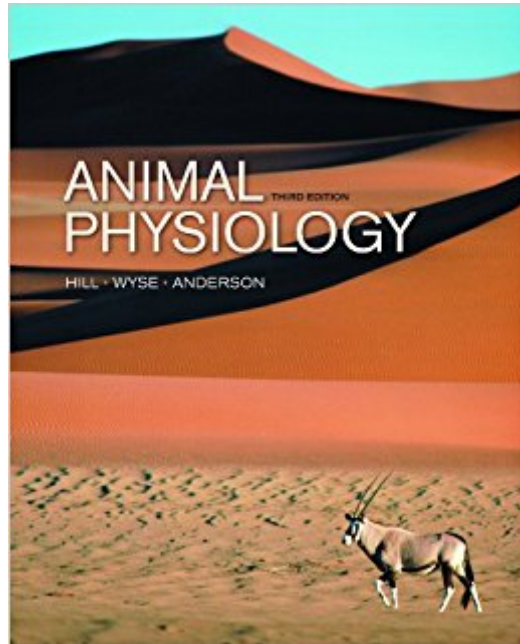




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Animal Physiology, Third Edition



Synopsis

Animal Physiology presents all the branches of modern animal physiology with a strong emphasis on integration of physiological knowledge, ecology, and evolutionary biology. Integration extends from molecules to organ systems and from one physiological discipline to another. The book takes an entirely fresh approach to each topic. Its full-colour illustrations include many novel, visually effective features to help students learn. Each of the 25 main chapters starts with a brief 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, molluscs, and-as appropriate-additional invertebrates. Concepts and integrative themes are emphasized while giving students the specifics they need. The whole animal is the principal focus of this book. The pages are filled with information on everything from knockout mice, genomics, and enzyme chemistry to traditional organ physiology, phylogenetic analysis, and applications to human affairs. 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 and carefully to help students understand important concepts in sufficient depth without being overwhelmed. Pedagogical aids include embedded summaries throughout chapters, study questions, partially annotated reference lists, an extensive glossary, appendices, and an upgraded index. For all three authors, teaching physiology to undergraduate students has been a lifelong priority. The opening five chapters provide background material on physiological basics, cell-molecular concepts, genomics, physiological development, transport of solutes and water, ecology, and evolutionary biology. The remaining chapters are organized into five sections: * Food, Energy, and Temperature * Integrating Systems * Movement and Muscle * Oxygen, Carbon Dioxide, and Internal Transport * Water, Salts, and Excretion The new edition features: * A new chapter on physiological development and epigenetics (Chapter 4) * An entirely rewritten chapter on sensory processes, integrating latest research insights with organ-system physiology (Chapter 14) * Extensive rewriting, reorganization, or expansion of chapters on aerobic and anaerobic metabolism (Chapter 8), activity energetics (Chapter 9), thermal relations (Chapter 10), osmoregulation (Chapter 28), and kidney function (Chapter 29) * More than 57 new figures or tables * New boxes written by expert guest authors on topics such as fMRI, magnetoreceptors in navigation, optogenetics, sleep, and

symbiosis * All chapters updated based on the latest literature and terminology * All figures and text revised as needed for pedagogical effectiveness * Updated, in-depth lists of references to the scientific literature

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"From the intricacies of energy metabolism to the biology of large ecosystems, each topic is explained in a logical, detailed manner aided by essential diagrams that enhance the text ... students need look no further for a study companion." --Times Higher Education Textbook Guide

RICHARD W. HILL, Professor in the Department of Zoology at Michigan State University, USA and a frequent Guest Investigator at Woods Hole Oceanographic Institution. His research interests include temperature regulation and energetics in birds and mammals, especially neonates; and environmental physiology of marine tertiary sulfonium and quaternary ammonium compounds, especially in the contexts of biogeochemistry and animal-algal symbioses. GORDON A. WYSE, Professor of Biology Emeritus and Lecturer at the University of Massachusetts, Amherst, USA. He has served on the Editorial Board of *Advances in Physiology Education* and as Associate Dean of Natural Sciences and Mathematics. His research interests include the neural control of feeding behavior and other behavior patterns. MARGARET ANDERSON, Professor of Biological Sciences at Smith College, USA. She is one of six founding members of the Consortium of Medical Schools and Women's Colleges. Her research interests include the functional properties of excitable cells.

I am taking a graduate level physiology class and this book made it so much easier. The paragraphs are clear with great illustrations. I would recommend this to any college student or someone who is interested in this field.

Easy to follow and understand. I also like the summaries at the end of the sections in throughout the chapters.

Thanks!!

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