

Human Circulation: Regulation During Physical Stress

Loring B. Rowell

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Loring B. Rowell : Human Circulation: Regulation During Physical Stress before purchasing it in order to gage whether or not it would be worth my time, and all praised Human Circulation: Regulation During Physical Stress:

Focusing primarily on the distribution of blood flow and its regulation in humans, this well-illustrated study illuminates the overall control of the human cardiovascular system. Combined for the first time in a single volume are discussions of how peripheral vascular beds are controlled in humans, how these control mechanisms interact with those of cardiac performance and the central circulation, and how this vasomotor regulation serves the whole organism, especially under condition of stress. The author also redresses an imbalance found in contemporary cardiovascular physiology, where the "cardio" is often emphasized at the expense of the "vascular." Rowell stresses the importance of the passive properties of the venous system and argues that the human cardiovascular system has unique properties and strategies for the distribution of blood flow that are rarely observed in other species, a view that will attract attention and stimulate discussion among cardiovascular experts.

"Uniformly well written in a direct and informative style...I highly recommend this book to practicing physicians and to medical students. It can also serve as a reference for graduate students and instructors."--Journal of the American Medical Association
"This is an interesting, informative, and provocative book...Rowell uses his superb talents of scientist, teacher, and storyteller to make a difficult topic lucid and enjoyable reading. He effectively identifies

problems by asking penetrating questions at the beginning of each chapter. The questions are masterfully constructed and the reader is then led through a process of problem solving rather than lectured to in a dogmatic manner.... The book contains a wealth of information that is richly supplemented with superb illustrations. It is a valuable addition to the literature for all those interested in human circulatory regulation. It should be particularly valuable for graduate students as Rowell brings the scientific process full circle by asking questions that identify areas for additional work."-- Philip D. Gollnick, Professor of Physiology, Washington State University "A masterful treatise... Rowell demonstrates his command for integrative cardiovascular physiology in a cohesive and informative book. Important and original concepts of circulatory control are highlighted and interwoven in reviewing cardiovascular adjustments to upright posture, exercise and heat stress. This conceptual framework is combined with an unusually detailed discussion of quantitative aspects of the regional circulatory adjustments to physical stresses. The conclusions and views put forth are closely linked to a critical analysis of evidence derived from human experimentation."-- Allyn L. Mark, Professor and Director, Cardiovascular Division, University of Iowa "A truly extraordinary job... Goes well beyond what is commonly offered in the 'reviews' or 'state-of-the-art' articles... Exciting... provocative and interesting.... The fact that both a primer on basic cardiovascular physiology coexists in the same text with details of the application of these principles also makes this book an ideal instructional tool."-- Sports Medicine Bulletin "A superb analysis of the function of the cardiovascular system.... Highly recommended for serious students of cardiovascular physiology.... Will be helpful to physicians and physiologists who have an interest in exercise and environmental physiology.... Also serves as an introduction to systems physiology for readers primarily concerned with molecular and cellular events."-- The Physician and Sports Medicine "[Rowell] takes the reader on a marvelous odyssey of critical scientific thinking.... This book is 'must' reading for anyone interested in circulatory physiology. It should be read by clinical cardiology trainees as well."-- Clinical Cardiology "Rarely, one reads a book in which the author takes a large body of knowledge regarding a complex process and arranges, analyzes, defines and integrates the data to produce a unitary view that, mirabile dictu, gives new insights and draws the boundary between the known and the unknown. [This] is such a work.... The whole body of knowledge is presented in a skillful mosaic which provides insights into the control of the circulation.... It is worthwhile reading for any physician involved in evaluating or treating diseases of the circulation."-- Chest, "The monograph skillfully presents the highly desired and trendy issue of circulatory regulation in man by giving explanations to changes during stress based on sound evidence. [It] should be useful for those interested in the reaction of the circulatory system in man to stresses and the explanations involved." -- International Journal of Cardiology "Loring Rowell has devoted a lifetime to the study of the regulation of particularly the human cardiovascular system and is the recognized authority on this topic in the world. This book is in keeping with Dr. Rowell's preeminent position; it is the classic text on cardiovascular physiology."-- South African Medical Journal About the Author Loring B. Rowell is a Professor of Physiology and Biophysics and of Medicine (Cardiology) at the University of Washington School of Medicine. He has published over 100 research papers, chapters, and review articles and served on the editorial boards of American Journal of Physiology, Journal of Applied Physiology, and Circulation Research, and on national and international scientific review boards.