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*body, noting the physiological processes, cell and tissue types, and the role each organ plays within the larger system.*

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*descriptions of mechanisms, rather than mere descriptions of facts and events. As evidence, the book employs numerous flow diagrams that illustrate clearly defined chains of casual links. The text's theme reflects the dominant theme of human physiology; homeostasis. Each body system is approached from the vantage point of homeostasis as achieved through the coordinated functions of homeostatic control systems.*

*Eric Widmaier (Boston University), Hershel Raff (Medical College of Wisconsin), and Kevin Strang (University of Wisconsin) have taken on the*

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*challenge of maintaining the strengths and reputation of Vander's Human Physiology: The Mechanisms of Body Function. Moving beyond the listing of mere facts, it stresses the causal chains of events that constitute the mechanisms of body function. The fundamental purpose of this textbook is to present the principles and facts of human physiology in a format that is suitable for undergraduates regardless of academic background or field of study. Vander's Human Physiology, twelfth edition, carries on the tradition of clarity and accuracy, while refining and updating*



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*the content to meet the needs of today's instructors and students. The twelfth edition features a streamlined, clinically oriented focus to the study of human body systems. It has also responded to reviewer requests for more clinical applications. Chapter 19 was new for the eleventh edition, with three complete case studies. The twelfth edition will contain an additional new case study. Additional Physiology Inquiries have been added to many figures throughout the chapters. These critical-thinking questions are just one more opportunity to add to the student's learning*

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*experience. Included in this package is Anatomy & Physiology Revealed. APR is the ultimate interactive cadaver dissection experience. This state-of-the-art program uses cadaver photos combined with a layering technique that allows the student to peel away layers of the human body to reveal structures beneath the surface. Anatomy & Physiology Revealed also offers animations, histologic and radiologic imaging, audio pronunciations, and a comprehensive quizzing tool. Eric Widmaier (Boston University), Hershel Raff (Medical College of Wisconsin), and Kevin Strang*

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complexity of the molecular mechanisms of insulin action with a special emphasis on those features of the system that are subject to alteration in type 2 diabetes and other insulin resistant states. It explores insulin action at the most basic levels, through complex systems.

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physiology, and this objective has remained the guiding principle through all of the subsequent editions. All editions have been lauded for their readability, the currency of the information, and the clarity of the presentation. The fifteenth edition continues this tradition by presenting human physiology in the most current, readable, and student-oriented way possible. This milestone edition is marked by a unique cover, the addition of a Digital Author, a new art program, and the updating of terminology and content.

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