



Physiological Aspects of Sport training and Performance With Web Resource-2nd Edition

By Jay Hoffman



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Physiological Aspects of Sport Training and Performance, Second Edition With Web Resource, updates and expands on the popular first edition, providing an in-depth discussion of physiological adaptation to exercise. Students will learn the importance of an evidence-based approach in prescribing exercise, while sports medicine professionals and health care providers will appreciate using the text as a primary reference on conditioning and performance of athletes. A range of topics are covered, including environmental influences on performance, hydration status, sport nutrition, sport supplements, and performance-enhancing drugs. The book is focused on physiological adaptation to exercise with a goal of providing practical applications to facilitate exercise prescriptions for a variety of athletes.

Physiological Aspects of Sport Training and Performance, Second Edition, is organized into five parts. The first part examines physiological adaptation and the effects of various modes of training on biochemical, hormonal, muscular, cardiovascular, neural, and immunological adaptations. The second part covers principles of exercise training and prescription. The third part discusses nutrition, hydration status, sport supplementation, and performance-enhancing drugs. The fourth part focuses on environmental factors and their influence on sport performance. The fifth and final part is focused on how certain medical and health conditions influence sport performance.

Updates in this second edition focus on cutting-edge knowledge in sport science and sports medicine, including the latest information on physiological adaptations to exercise; current trends for training for power, speed, and agility; eye-opening discussions on sport supplementation and performance-enhancing drugs; data on training with medical conditions such as diabetes and exercise-induced bronchospasm; and groundbreaking information on training in heat and cold and at altitude. In addition, new chapters offer a practical approach to the yearly training program and sudden death in sport.

The second edition also incorporates the following features to enhance practical application and facilitate students' learning:

- A new web resource includes 80 drills and 41 video demonstrations that help readers understand how to implement the various exercises.

- Chapter objectives provide an overview of key content in each chapter.
- Chapter review questions help students assess their learning.
- In Practice sidebars bring chapter content to life in a practical manner and help students better understand the material.

Students and instructors will benefit from the new web resource, which features 80 drills and detailed instruction on performing each drill. The drills can be used for a dynamic warm-up or to enhance speed and agility. Most drills are accompanied by at least one photo showing how to perform a key movement of the drill. Forty of the drills are accompanied by a video of the drill being performed in its entirety, and a dynamic warm-up routine video features 10 warm-up exercises.

Physiological Aspects of Sport Training and Performance, Second Edition, provides a strong basis for understanding adaptation to exercise and appreciating how changes in program variables can alter training adaptations. All the information in this text is presented in an attractive, reader-friendly format that is conducive to learning. The text serves as both a key educational tool and a primary reference for exercise prescription for athletes.

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“There is little that this book does not offer to readers looking for an evidence-based book on athlete performance and exercise science. The author is well respected in the field and offers a high-quality book supported by the latest in peer-reviewed evidence.”

--Doody’s Book Review (5-star review)

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