Fundamentals of Sport and Exercise Nutrition

NSCA's Guide to Sport and Exercise Nutrition provides valuable information and guidelines that address the nutrition needs for the broad range of clientele serviced by strength and conditioning professionals, personal trainers, and sport dietitians. Whether you work with fitness enthusiasts or competitive athletes, this resource will lead you through the key concepts of sport and exercise nutrition so that you can assess an individual's nutrition status and—if it falls within your scope of practice—develop customized nutrition plans. Developed by the National Strength and Conditioning Association (NSCA) and subjected to an intensive peer-review process, this authoritative resource offers the latest research and literature review from respected scientists and practitioners with expertise in nutrition, exercise, and sport performance. NSCA's Guide to Sport and Exercise Nutrition covers all aspects of food selection, digestion, metabolism, and hydration relevant to sport and exercise performance. This comprehensive resource will help you understand safe and effective ways to improve training and performance through natural nutrition-based ergogenic aids like supplementation and macronutrient intake manipulation. You will also learn guidelines about proper fluid intake to enhance performance and the most important criteria for effectively evaluating the quality of sport drinks and replacement beverages. Finally, cutting-edge findings on nutrient timing based on the type, intensity, and duration of activity will help you understand how to recommend the correct nutrients at the ideal time to achieve optimal performance results. In addition to presenting research relating to sport and exercise nutrition, each chapter includes a professional application section that will help you make the connection between the literature and its practical implementation. Sidebars emphasize important topics, and reproducible forms consisting of a food log, brief athlete nutrition assessment, and goal-setting questionnaire can be copied and shared with your clients. A running glossary keeps key terms at your fingertips, and extensive references within the text offer starting points for your continued study and professional enrichment. Each client and athlete requires a customized diet tailored to the frequency, intensity, duration, and specificity of the training and demands of the sport or activity. With NSCA's Guide to Sport and Exercise Nutrition, you will learn how food, sport supplements, and their interactions with a client's biological systems can enhance exercise and sport performance for optimal training, recovery, and competition. NSCA's Guide to Sport and Exercise Nutrition is part of the Science of Strength and Conditioning series. Developed with the expertise of the National Strength and Conditioning Association (NSCA), this series of texts provides the guidelines for converting scientific research into practical application. The series covers topics such as tests and assessments, program design, nutrition, and special populations.

Nutrition in Health and Disease readers how sport nutrition is used in today's world." --Book Jacket.
Current research and practical activities are incorporated throughout.

Nutrition in Exercise and Sport Revised and updated to keep pace with the growing changes in the field, the Fourth Edition of Practical Applications in Sports Nutrition provides students and practitioners with the latest sports nutrition information and dietary practices, and prepares them to assist athletes and fitness enthusiasts in achieving their personal performance goals. Early chapters provide an introduction to sports nutrition and give a thorough explanation of macronutrients, micronutrients, and water and their relation to athletic performance. Later chapters focus on the practical and applied aspects of sports nutrition including behavior change through consultations and weight management. Chapter 15 targets the unique nutrition requirements of special populations such as athletes who are pregnant, vegetarian, or have chronic diseases. The text concludes with a chapter dedicated to helping readers discover the pathway to becoming a sports dietitian through education and experience. New to the Fourth Edition: New discussion of sports nutritionists as evidence-based practitioners Current MyPlate food group recommendations Revised discussion of the relationship between current body weight and carbohydrate intake, as well as the types and the amounts of carbohydrates that should be consumed during exercise New Food For Thought callouts identify related material in Sports Nutrition Workbook and Assessments Updated statistics, guidelines, and regulations found throughout the text, including obesity statistics, carbohydrate intake and vitamin needs.”

Antioxidants in Sport Nutrition Food and drink choices before, during and after training and competition have a direct impact on health, body mass and composition, nutrient availability and recovery time, and an optimal diet can significantly improve exercise performance. Nutrition for Sport and Exercise outlines the fundamental principles of nutrition in relation to sport and exercise and then applies these principles through practical tools such as food and nutrient lists, recipes and menu options. This practical guide translates the athlete’s goals into achievable strategies and shortens the gap between theory and practice. Equipping the reader to successfully implement dietary changes, this is an invaluable resource for athletes, sports physicians and undergraduate students of sport and exercise science courses. Special Features Dedicated chapters on the impact and relevance of specific nutrients and food groups Includes recipes and menu options Covers the area of sport and exercise nutrition with an evidence-based approach Concise and accessible, combining theory and practice

Sports, Exercise, and Nutritional Genomics The definitive sports nutrition book, regarded in the industry as core reading for anyone involved in sports and fitness, is now in its 8th edition.

Sports Nutrition

Essential Sports Nutrition Exercise by itself tears down the body. To rebuild that body so that it expresses greater strength, endurance, and speed, requires sound nutritional practices based on fact rather than fad. Those practices must also recognize that specific needs vary greatly according to age, gender, and intensity of exercise. Sports Nutrition: Energy Metabo

The Encyclopaedia of Sports Medicine: An IOC Medical Commission Publication, Nutrition in Sport is the first research-based text that integrates key topics in the field of exercise and sports nutrition. It is organized to clearly present information about nutrient digestion, absorption and assimilation presented first, followed by discussions on how nutrients provide energy for the body. Lecturers - Click here to order a FREE Review Copy of this title!

The Complete Guide to Sports Nutrition Nutrition for Sport, Exercise, and Health blends nutrition and exercise theory with practical applications to provide students and professionals with a comprehensive introduction to the field.

Practical Applications in Sports Nutrition Women who exercise regularly have specific nutritional needs. Carefully researched and fully up to date, and written by an experienced sports nutritionist, Anita Bean's book is written in a clear and accessible way to appeal directly to active women. This book covers topics such as exercise and the menstrual cycle, bone health, disordered eating, weight loss and iron deficiency anaemia. Around 45% of women take place in sport or physical activity, and over 4.4 million women are members of sports clubs (21% of women). A recipe section gives women lots of ideas for healthy and easy-to-cook meals and snacks.

Nutrition for Health, Fitness and Sport Nutrition before, during and after training or a sporting event can improve the comfort, energy and performance of athletes of all levels, from elite
to recreational, as well as providing long-term health benefits. Nutrition for Sport, Exercise and Performance offers a clear, practical and accessible guide to the fundamentals of sport and exercise nutrition. The expert authors begin by explaining key principles, including understanding energy systems, exercise physiology and metabolism. They cover the basics of digestion, absorption and nutrition; examine the key macronutrients and micronutrients essential for performance; and discuss the process of dietary assessment. Part 2 goes on to explore in detail nutrition issues for pre- and post-training, hydration, the use of supplements and body composition, and provides guidance on developing plans for both individual athletes and teams. The final component examines specific nutrition issues and special needs, including working with elite athletes, strength-and-power athletes, young, older and disabled athletes, endurance sports, GI disturbances and rehabilitation issues. Cultural issues are also explored, including diets for vegan and vegetarian athletes, and religious perspectives and requirements. Featuring contributions from a range of sport and exercise nutrition professionals and including practical tips, diagrams and the latest research and evidence throughout, this is a core reference for undergraduates, nutritionists and trainers.

Nutrition for Sport and Exercise This textbook provides the reader with thorough coverage of the role nutrition plays in enhancing one's health, fitness and sport performance. Modern research and practical activities are incorporated throughout.

Loose Leaf for Williams' Nutrition for Health, Fitness and Sport Nutrition for Health, Fitness & Sport, now in its Eleventh edition, provides the reader with thorough coverage of the role nutrition plays in enhancing one’s health, fitness, and sport performance. Current research and practical activities are incorporated throughout. This edition welcomes the addition of author, J. David Branch, along with the return of author Eric S. Rawson from the tenth edition, both of whom are actively involved in the disciplines of exercise physiology and sports nutrition, and who have used this textbook over the years to teach their university classes. The eleventh edition truly moves into blending the latest technology for individuals to utilize in combining nutritional and exercise choices for health and sports performance. Featured nutritional information includes the introduction to the Academy of Nutrition and Dietetics position stand on the total approach to healthy eating and to the latest report on Dietary Guidelines for Americans, while exercise and physical activity featured content includes the introduction to High Intensity Interval Training (HIIT) and its possible application to exercise for health, along with the Compendium of Physical Activities. Enhanced discussion of the latest trends of various exercise applications (apps) and personal digital fitness measurement equipment, such as fitness bands and fitness watches, are also hallmarks of the eleventh edition. More than 300 new references, including clinical studies, reviews, and meta-analyses, have also been added to the text.

Nutrition for Sport, Exercise, and Health Discover the healing and restorative powers of nutrition and exercise Essential nutrients do more than sustain life; they support the body's ability to withstand deteriorating illness, ailments, and accidents. Medical and athletic professionals understand the relationship between nutrition, exercise, and physical well-being. Now, Judy A. Driskell, Ph.D., R.D., one of the pioneers in the rapidly growing field of sports nutrition, examines and assesses the chemistry, biology and physics of good health. Sports Nutrition is a vital reference for medical professionals, and a unique and valuable resource for coaches, teachers, trainers and athletes.

Nutrition and Metabolism in Sports, Exercise and Health Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticicy, or access to any online entitlements included with the product. This edition of McArdle, Katch, and Katch’s respected text reflects the most recent, evidence-based information on how nutrition affects exercise and sports performance. Using high quality research to illustrate teaching points, the authors provide detailed yet accessible coverage of the science of exercise nutrition and bioenergetics, along with valuable insights into how the principles work in the real world of physical activity and sports medicine. New content, new research citations, and new case studies throughout help prepare students for a successful career in exercise science.

Essentials of Exercise & Sport Nutrition: Science to Practice Nutrition for Health, Fitness and Sport uses a question-answer approach, which is convenient when you may have occasional short periods to study, such as riding a bus or during a lunch break. In addition, the questions are arranged in a logical sequence, the answer to one question often leading into the question that follows. Where appropriate, cross-referencing within the text is used to expand the discussion. No deep scientific background is needed for the chemical aspects of nutrition and energy expenditure, as these have been simplified. Instructors who use this book as a course text may add details of biochemistry as they feel necessary.

Loose Leaf for Nutrition for Health, Fitness and Sport NSCA's Guide to Sport and Exercise Nutrition, Second Edition, examines the effects that nutrition has on performance, health, and body composition. It helps you understand how to assess an individual's nutrition status and--if it falls within your scope of practice--develop customized nutrition plans.
Sports Nutrition Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. New from the American College of Sports Medicine! This clear and highly applied overview of exercise nutrition illustrates difficult concepts using real-world examples and case studies that allow students to put learning into practice. Well-known author Dan Benardot draws on his vast experience as an instructor, scientist, and practitioner to craft an engaging and factual resource that makes the nutrition of exercise science accessible. Written at a level appropriate for both exercise science majors and non-majors, this practical book is packed with helpful in-text learning aids and stunning visuals that bring concepts to life. As an ACSM publication, this text offers the unsurpassed quality and excellence that has become synonymous with titles by the leading exercise science organization in the world. eBook available. Faster, smarter, and more convenient, today's eBooks can transform learning. These interactive, fully searchable tools offer 24/7 access on multiple devices, the ability to highlight and share notes, and much more. Case studies with discussion questions in every chapter show real-world application of the science of nutrition. Important Factors to Consider boxes throughout chapters summarize key points. Practical advice and clear explanations in every chapter prepare students for effective practice. In-text learning aids, including Chapter Objectives, boxed Key Terms, bulleted Chapter Summaries, and multiple-choice Chapter Questions, help students master the content of the course. Practical Application Activity boxes that challenge students to get actively involved with the content include such activities as using a nutrition tracker to assess their diet for a full day and analyze their energy balance.

Nutrition for Health, Fitness and Sport Updated for its Fourth Edition with increased art and photos, this undergraduate exercise physiology textbook integrates basic exercise physiology with research studies to stimulate learning, allowing readers to apply principles in the widest variety of exercise and sport science careers. The book has comprehensive coverage, including integrated material on special populations, and a flexible organization of independent units, so instructors can teach according to their preferred approach. Each unit is designed with a consistent and comprehensive sequence of presentation: basic anatomy and physiology, the measurement and meaning of variables important to understanding exercise physiology, exercise responses, training principles, and special applications, problems, and considerations. Plowman & Smith provides a consistently organized, comprehensive approach to Exercise Physiology with excellent supporting ancillary materials. Its ability to relate up to date research to key concepts and integrate special populations makes this book ideal for classroom use.

NSCA's Guide to Sport and Exercise Nutrition Sport Nutrition, Third Edition, uses a physiological basis to provide an in-depth look at the science supporting nutrition recommendations. Students will come away with an understanding of nutrition as it relates to sport and the influence of nutrition on performance, training, and recovery.

Physical Activity, Nutrition and Health The authors sort fact from fiction to help students and practitioners of sports nutrition present sound advice to athletes on correct nutrition and dietary requirements.

Sport Nutrition for Health and Performance We all want to look and feel good. We also want to perform well whether it's in the weight room, in sports, or at work. Research has shown exercise, proper nutrition, and adequate recovery affect health and human performance. However, there’s lot of conflicting and confusing information regarding exercise and nutrition. In Essentials of Exercise and Sport Nutrition, author Dr. Richard B. Kreider offers an up-to-date assessment of the science and practice of exercise and sport nutrition. Kreider, who has conducted extensive research on the subject and has consulted with numerous teams, coaches, and athletes for more than thirty years, brings a scientific and applied perspective to discussing the latest research and how it can be used to optimize performance. He also provides summary recommendations, training programs, and meal plans for beginners through athletes, as well as for individuals who want to lose and/or manage their weight.

NSCA’s Guide to Sport and Exercise Nutrition This textbook provides the reader with thorough coverage of the role nutrition plays in enhancing one's health, fitness and sport performance. Current research and practical activities are incorporated throughout.

WILLIAMS NUTRITION for HEALTH, FITNESS AndSPORT Essential Sports Nutrition is the new authoritative reference to eat right for an active lifestyle. Sports nutrition is a vital element for reaching peak physical performance. To maximize workouts and athletic ability, Essential Sports Nutrition offers the most up-to-date nutritional guidance along with delicious recipes to make eating right for an active lifestyle, easy. Marni Sumbal, MS, RD, CSSD, a board-certified dietitian who specializes in fueling endurance athletes, breaks down the science of nutrition with easy-to-follow explanations on the right things to eat and the right time to eat them. Complete with 24 recipes for before, after, and during exercise, Essential Sports
Nutrition is a user-friendly reference on fueling to meet your fullest potential. Essential Sports Nutrition teaches you how to nourish your body for energy with: A nutritional overview that includes new research on sources of nutrition and components of an ideal diet. Nutrient timing that teaches you what and when to eat before, during, and immediately after exercise for the best results. 24 recipes for before exercise or competition, during and after exercise, plus recipes for rest days. Whether you practice an endurance sport or engage in recreational exercise, Essential Sports Nutrition offers the guidance and recipes you need to eat, compete, and succeed.

Nutrition for Sport and Exercise Nutrition for Health, Fitness & Sport, now in its Eleventh edition, provides the reader with thorough coverage of the role nutrition plays in enhancing one’s health, fitness, and sport performance. Current research and practical activities are incorporated throughout. This edition welcomes the addition of author, J. David Branch, along with the return of author Eric S. Rawson from the tenth edition, both of whom are actively involved in the disciplines of exercise physiology and sports nutrition, and who have used this textbook over the years to teach their university classes. The eleventh edition truly moves into blending the latest technology for individuals to utilize in combining nutritional and exercise choices for health and sports performance. Featured nutritional information includes the introduction to the Academy of Nutrition and Dietetics position stand on the total approach to healthy eating and to the latest report on Dietary Guidelines for Americans, while exercise and physical activity featured content includes the introduction to High Intensity Interval Training (HIIT) and its possible application to exercise for health, along with the Compendium of Physical Activities. Enhanced discussion of the latest trends of various exercise applications (apps) and personal digital fitness measurement equipment, such as fitness bands and fitness watches, are also hallmarks of the eleventh edition. More than 300 new references, including clinical studies, reviews, and meta-analyses, have also been added to the text.

Anita Bean’s Sports Nutrition for Women Nutrition for Sport, Exercise, and Health includes applied content and research-based guidelines to help students distinguish between nutrition recommendations backed by science and the plethora of misinformation available in the field. This comprehensive resource blends nutrition and exercise science with practical information to provide a clear understanding of how nutrition affects sports, exercise, and overall health. Nutrition for Sport, Exercise, and Health covers the basics of nutrition, including the functions and daily allowances for carbohydrate, fat, and protein, as well as micronutrient recommendations; the importance of hydration and electrolyte balance; nutrition in health and disease prevention; population-based nutrition considerations for training and sports; and practical information on measuring and altering body composition. The accessible presentation of material keeps students from getting too bogged down in research, and the text offers real-world applications. Students will also discover career opportunities available to them, including qualifications and job responsibilities for each position. The full-color text includes more than 70 photos and more than 140 illustrations alongside digestible, engaging writing. Concepts are presented in a user-friendly manner, and each chapter includes a number of features that enhance understanding: • Chapter objectives provide a roadmap to ease students into upcoming content. • Key terms help students focus on important vocabulary. The key terms are identified at the beginning of the chapter, appear in boldface within the chapter, and are included within the glossary, where they are defined. • Putting It Into Perspective sidebars contain compact vignettes that help college students relate to the content and apply the concepts to their own lives. • Do You Know? sidebars are short callouts that provide key insights and easy takeaways for students. • Review questions help students identify areas they may need to revisit as well as reinforce key concepts. Content is organized in a logical sequence, with each chapter building upon the information previously presented. In part I, the reader is provided with an overview of the role nutrition plays in overall well-being throughout a person’s life. Part II focuses on each macronutrient and its role in health and disease, as well as dietary recommendations that support health and an active lifestyle. The role of micronutrients in health and performance is covered in part III. Part IV provides information on the application of nutrition to sport, exercise, and health. Instructors will find a full suite of ancillaries that will be helpful in their teaching. The instructor guide and presentation package plus image bank will help in preparing for class, while the test package and chapter quizzes will help assess student learning. Students and professionals alike will benefit from the broad coverage found in Nutrition for Sport, Exercise, and Health. Armed with accessible, research-based application, readers will have the tools they need to improve athletic performance, exercise outcomes, and general well-being.

Nutrition, Health, Fitness, and Sports As sports have become more competitive over recent years researchers and trainers have been searching for new and innovative ways of improving performance. Ironically, an area as mundane as what an athlete eats can have profound effects on fitness, health and ultimately, performance in competition. Sports have also gained widespread acceptance in the therapeutic management of athletes with disorders associated with nutritional status. In addition, exercise has been one of the tools used for studying the control of metabolism, creating a wealth of scientific information that needs to be placed in the context of sports medicine and science. Nutrition in Sport provides an exhaustive review of the biochemistry and physiology of eating. The text is divided into three sections and commences with a discussion of the essential elements of diet, including sections on carbohydrates, proteins, fats, vitamins and trace elements, and drugs associated with nutrition. It also discusses athletes requiring special consideration, including vegetarians and diabetics. The second
section considers the practical aspects of sports nutrition and discusses weight control (essential for sports with weight categories and athletes with eating disorders), the travelling athlete (where travel either disrupts established feeding patterns or introduces new hazards), environmental aspects of nutrition (including altitude and heat), and the role of sports nutritional products.

Nutrition for Sport, Exercise, and Health Sports, Exercise, and Nutritional Genomics: Current Status and Future Directions is the first reference volume to offer a holistic examination of omics-driven advances across different aspects of exercise and sports physiology, biochemistry, sports medicine, psychology, anthropology, and sports nutrition; and highlighting the opportunities towards advance personalized training and athlete health management. More than 70 international experts from 14 countries have discussed key exercise and sport-related themes through the prism of genomics, epigenomics, transcriptomics, proteomics, metabolomics, telomere biology, talent in sport, individual differences in response to regular physical activity, that in the future may empower coaches, sports physicians, fitness experts, genetic counselors, and translational scientists to employ various omics data and approaches in improving health and physical performance of people participating in sports and exercise activities. Contributors address current knowledge of genetic influence on athletic performance, individual responses to exercise training, as well as the genetics of musculoskeletal phenotypes, exercise-related injuries, flexibility, and neurodegenerative disorders in athletes. Finally, performance-related and psychological traits associated with epigenetic, transcriptomic and metagenomic biomarkers are also considered, along with nutritional and pharmacogenomic aids in sports medicine and personalized nutrition. Effectively synthesizes key themes across molecular aspects of exercise and sports sciences Provides a knowledge base for future translation of omics solutions to talent identification, individualized training, and nutrition Features contributions from international experts (researchers and clinicians) in the subject area

Practical Sports Nutrition This book deals with very different aspects of nutrition from different countries (qualities and quantities of food, their absorptions from the gastrointestinal tract, utilization in healthy human beings or in patients with different diseases, food and drug interactions, etc.). However, these different nutritional positions are different in the different countries. The 13 chapters were written by experts from countries in four continents (Asia, Africa, America, and Europe) and generally cover one nutritional problem each; however, if we analyze the results of all the chapters, we can see the most important nutritional problems from all over the world. This detailed analysis offers us an overview of this most urgent nutritional problem. We know that the world's population has increased exponentially in the last few decades (and is still increasing); however, foods and food products have increased more slowly. We have to solve these and other nutritional problems to ensure the health of generations to come.

Nutrition for Health and Wellness Nutrition is the study of nutrients in food and their influence in maintenance, growth and reproduction of an organism. It also studies the role of nutrients in disease prevention. A balanced diet replete with all essential nutrients is necessary for avoiding various deficiency syndromes and prevention of health-threatening conditions like obesity, cardiovascular diseases, diabetes, etc. This book is compiled to provide an in-depth knowledge of the different perspectives and standards of effective nutrition plans, physical activity and their effects on health. This book presents researches and studies performed by experts across the globe. Nutritionists, doctors, physical instructors and interested students will find this book to be a valuable source of information for furthering their knowledge of this field.

Nutrition for Sport, Exercise and Performance

Sports and Exercise Nutrition Nutrition and Enhanced Sports Performance: Muscle Building, Endurance, and Strength provides a comprehensive overview to understanding the integrated impact of nutrition on performance. The book is divided into five main themes: An introductory overview of the role of nutrition in human health Various types of physical exercises, including cardiovascular training, resistance training, aerobic and anaerobic exercise, bioenergetics, and energy balance. This section also covers the nutritional requirements associated with various fitness programs, as well as exercise and nutritional requirements in special populations, including the pre-pubertal, young, elderly, and disabled. Sports and nutritional requirements. The molecular mechanisms involved in muscle building A thorough review of various food, minerals, vitamins, hormones, trace elements, etc., that can significantly attenuate/improve human performance and sports Addresses the molecular and cellular pathways involved in the physiology of muscle growth and the mechanisms by which nutrients affect muscle health, growth and maintenance Encompasses multiple forms of sports/performance and the salient contribution of appropriate nutrition on special populations, including nutritional guidelines and recommendations to athletes Strong focus on muscle building

ACSM’s Nutrition for Exercise Science The use of antioxidants in sports is controversial due to existing evidence that they both support and hinder athletic performance. Antioxidants in Sport Nutrition covers antioxidant use in the athlete’s basic nutrition and discusses the controversies surrounding the usefulness of antioxidant supplementation. The book also stresses how antioxidants may affect immunity, health, and exercise performance. The book contains scientifically based chapters explaining the basic mechanisms of exercise-induced oxidative damage. Also covered are methodological approaches to assess the effectiveness of antioxidant treatment. Biomarkers are discussed as a method to estimate the bioefficacy of dietary/supplemental antioxidants in sports. This book is useful for sport nutrition scientists, physicians, exercise physiologists, product developers, sport practitioners, coaches, top athletes, and recreational athletes. In it, they will find objective information and practical guidance.

Sports & Exercise Nutrition This clear and comprehensive introduction to nutrition in sport, exercise and health goes further than any other textbook in integrating key nutritional facts, concepts and dietary guidelines with a thorough discussion of the fundamental biological science underpinning our physiological and metabolic processes. Each chapter includes useful pedagogical features, including case studies, review questions, definitions of key terms, and practical laboratory exercises, including techniques for assessing nutritional status, body composition and physical activity patterns. A companion website offers additional teaching and learning features, such as PowerPoint slides, multiple-choice question banks and web links. As the most up-to-date introduction to sport and exercise nutrition currently available, this book is essential reading for all students of sport and exercise science, kinesiology, physical therapy, nutrition, dietetics or health sciences.

Exercise Physiology for Health Fitness and Performance Nutrition for Health, Fitness and Sport uses a question-answer approach with the questions arranged in a logical sequence. The
answer to one question often leads into the question that follows. Where appropriate, cross-referencing within the text is used to expand the discussion. No deep scientific background is needed for the chemical aspects of nutrition and energy expenditure, as these have been simplified. Instructors who use this book as a course text may add details of biochemistry as they feel necessary.

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