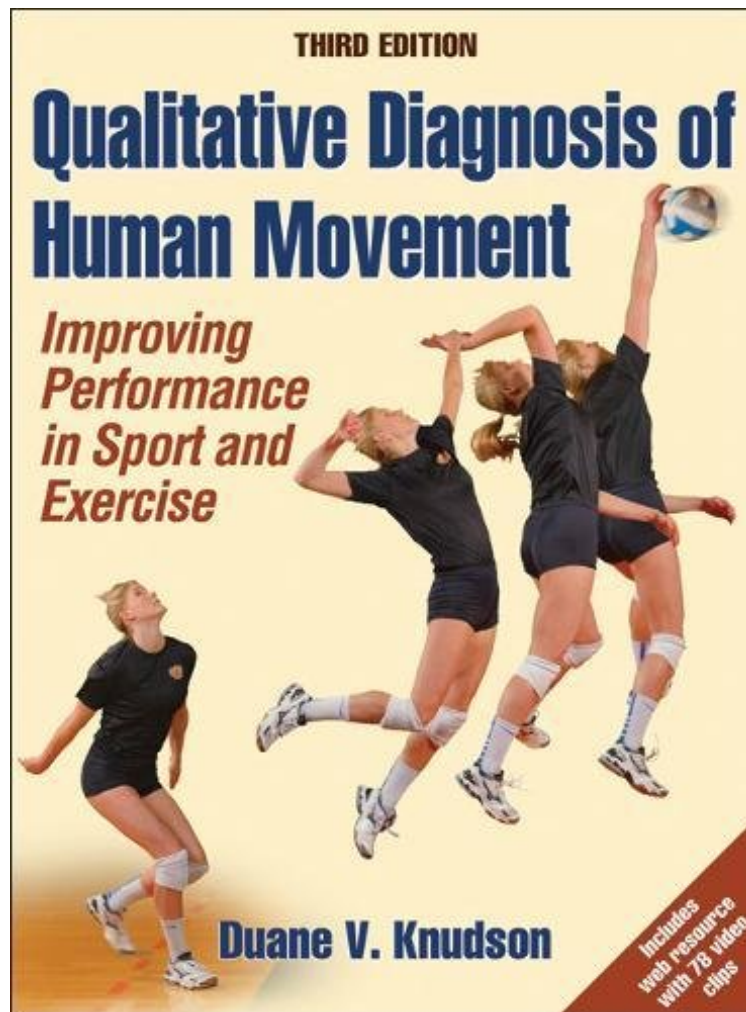


(Library ebook) Qualitative Diagnosis of Human Movement With Web Resource-3rd Edition: Improving Performance in Sport and Exercise

Qualitative Diagnosis of Human Movement With Web Resource-3rd Edition: Improving Performance in Sport and Exercise

Duane Knudson

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For kinesiology professionals, qualitative movement diagnosis (QMD) is a critical skill in helping individuals improve performance or reduce the risk of injury. *Qualitative Diagnosis of Human Movement: Improving Performance in Sport and Exercise, Third Edition With Web Resource*, focuses on the processes behind movement observation, assessment, and diagnosis, emphasizing how to recognize and correct errors in human movement. This unique text teaches anyone working in human movement-related professions how to integrate and apply knowledge from the fields of kinesiology, allied health, and engineering to help clients, patients, or athletes improve their movement performance or move with a lower risk of injury. Well received by scholars worldwide, the previous editions, formerly titled *Qualitative Analysis of Human Movement*, broke new ground as the first texts devoted to QMD. The third edition continues building on that foundation with a new title, *Qualitative Diagnosis of Human Movement*, to better reflect the diagnostic and corrective aspects of this critical skill. Following are other improvements to this edition: A web resource replaces the CD-ROM from the previous edition and contains more than 70 all-new video clips and follow-up questions to provide real-life examples to practice movement diagnosis. Expanded coverage of the use of video and computer technology shows readers how to use modern tools to aid in observation and evaluation of movement. An additional 80 new sources of research relevant to QMD illustrate the extent to which this area of study has taken hold in the kinesiology field. As in previous editions, *Qualitative Diagnosis of Human Movement, Third Edition*, organizes research-based knowledge into a simple theoretical structure supplemented with numerous examples of application. It introduces a four-task interdisciplinary model of QMD: preparation, observation, evaluation and diagnosis, and intervention and summarizes the development of this approach and the perceptual factors relevant to movement diagnosis. Readers are then led through a series of tutorials that provide real-world examples. These practice scenarios will help readers better understand the process from beginning to end as they review photos in the book in QMD Practice sections (with accompanying video in the web resource or video-enhanced e-book), and then perform their own movement diagnosis by viewing video from the web resource or video-enhanced e-book in QMD Explorations. In addition, a chapter titled Theory-Into-Practice Situations provides case studies spanning a variety of movement, fitness, and sport settings. These case studies are featured in both the book and the web resource as printable forms that offer readers support in developing their own plan to assist the subject in the case study. Several other features such as QMD Technologies and QMD Demonstration sideboxes add more tools to show students how QMD can help clients in real-world sessions. For instructors, an image bank containing the book's prominent figures, tables, and photos is available for use in delivering lectures. *Qualitative Diagnosis of Human Movement, Third Edition*, provides students, teachers, and researchers with a practical diagnostic framework, tutorials to guide them through the QMD process, advice on capturing relevant information from motor performances, and descriptions of intervention strategies. The updated edition and the unique web resource are invaluable tools capable of sharpening the skills of even experienced diagnosticians. This text will assist readers in integrating their knowledge of all kinesiology subdisciplines in order to develop or improve their skills in QMD and better serve their clients, patients, and athletes.

About the Author Duane V. Knudson, PhD, is a professor and chair of the department of health and human performance at Texas State University in San Marcos. He earned his PhD in biomechanics from the University of Wisconsin at Madison and has held tenured faculty positions at Baylor University in Waco, Texas, and California State University at Chico. Previously he served as associate dean and interim chair of the department of kinesiology at Chico State. Knudson's research in qualitative movement diagnosis (QMD) has garnered him an international reputation as an expert on the topic. He coauthored the first text on QMD, *Qualitative Analysis of Human Movement*, which has been translated into five languages. In addition to research on QMD, Knudson researches the biomechanics of tennis and stretching and the teaching and learning of biomechanical concepts. Knudson has authored 3 books, 11 book chapters, and 24 refereed articles in scientific proceedings. He has received numerous grants for his work and has published over 70 peer-reviewed articles in journals, including the *Journal of Applied Biomechanics*, *International Journal of Sport Biomechanics*, *Sports Biomechanics*, *International Journal of Sports Medicine*, *Sports Medicine*, *British Journal of Sports Medicine*, *Journal of Sports Sciences*, *Journal of Science and Medicine in Sport*, *European Journal of Applied Physiology*, *Sports Engineering*, *Gait Posture*, *Research Quarterly for Exercise in Sport*, and *Journal of Strength and Conditioning Research*. An elected fellow of three scholarly societies, Knudson served on the editorial board of five journals and was the 2011 recipient of the Ruth B. Glassow Honor Award from the National Association for Sport and Physical Education (NASPE). He has also served as vice president of publications for the International Society of Biomechanics in Sports (ISBS). He is also a member of the American Society of Biomechanics, American College of Sports Medicine (ACSM), and the American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD). He and his wife, Lois, reside in San Marcos. In his free time, Knudson enjoys reading and playing tennis.