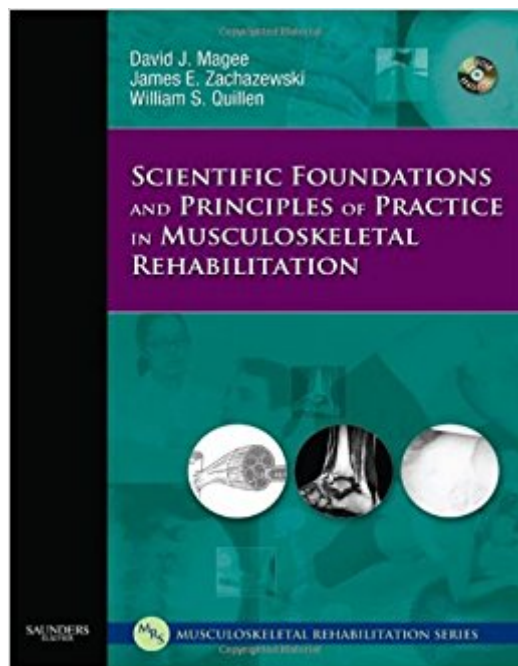


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# Scientific Foundations And Principles Of Practice In Musculoskeletal Rehabilitation, 1e (Musculoskeletal Rehabilitation Series ( MRS ))



## Synopsis

Musculoskeletal Rehabilitation, Volume 2: Scientific Foundations and Principles of Practice provides a thorough review of the basic science information concerning the tissues of the musculoskeletal system impacted by injury or disease, as well as the guiding principles upon which rehabilitation interventions are based. This volume divides information into two sections: scientific foundations and principles of intervention, providing readers with a guiding set of clinical foundations and principles upon which they can easily develop treatment interventions for specific impairments and functional limitations. Clinical application case studies help readers apply what they learn in the classroom to real life situations. Evidence-based content uses over 5,000 references to support the basic science information principles for rehabilitation interventions and provide the best evidence and physiological reasoning for treatment. Over 180 tables and 275 text boxes highlight key points within the text for better understanding. Expert editors David Magee, PhD, PT, James Zachazewski, DPT, SCS, ATC, Sandy Quillen, PT, PhD, SCS, FACSM and over 70 contributors provide authoritative guidance on the foundations and principles of musculoskeletal rehabilitation practice.

## Book Information

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## Customer Reviews

"I have been practicing for 20 years and have never written to anyone I didn't know regarding a publication. However, I just wanted to thank you and congratulate you for your recent publication by

Elsevier. I received the book on Friday and don't know which chapter to read next. It should be a mandatory text for physical therapy schools because of how it covers the fundamentals and basics. It is sometimes difficult to provide cutting edge material in books because of the publishing process, but you have done a great job. I plan on exposing the text to all students, physicians and health care professionals who cross my path. Since my last few years of practice have focused on pediatric sports medicine and childhood obesity, I will take the information and apply it accordingly to the growing and developing body. Thanks again for your wonderful contribution." "I would recommend this book as essential for fellow physiotherapists who are either near the completion of their course or recently qualified, as well as people studying similar subjects. I chose this book as a companion for the many textbooks I have which give the methodology of assessment techniques but do not cover the theory in depth. The text is easy to read yet still very comprehensive and summary boxes throughout the text provide the key points in a clear, concise way.... The content covers everything you could want when working within the field of musculoskeletal rehabilitation. It includes a chapter on psychology, effects of aging, nerves and neurophysiology, pharmacology etc as well as the topics you would expect. It is not a quick reference textbook but if you need a thorough understanding of the background behind musculoskeletal rehab it is perfect." Shula Baker, Physiotherapist, Mid Staffs NHS Foundation Trust

This text provides a very good background for understanding the biology behind tissue healing as it relates to physical therapy practice. However, the text lacks specific information on some essential properties of human tissue. Specifically, (for example) any discussion of the arcs of Benninghoff is absent, specific discussions of bone healing are not in depth, appropriate discussions of hormonal balance and bone physiology is also lacking, and a complete discussion of collagen and the properties and biology of collagens is missing as well as an in depth understanding of the mechanical properties of articular cartilage. Also absent is an in depth discussion of the mechanical properties of human tissue in general. Overall the text suffices for introductory understanding of tissue properties however as a classroom text it must be supplemented with relevant articles to 'plug the holes'. The references provided via CD are awkward for the learner to use and in my study of those references there are too many 'books' being used as the main citation for important concepts. Also many of the figures have been "borrowed" from other texts. It seems that these authors have simply repackaged, in an incomplete manner the works of previous authors without giving due consideration to the updated evidence. The more I read the more 'incomplete' this text becomes. It is better to use Gray's Anatomy (British Edition) and supplement with relevant and

current literature.

A great well written textbook. Very useful when working with a wide variety of musculoskeletal problems in outpatient physical therapy

In my opinion, this is a very complete book with the best information.No doubt, it is impossible to imagine a good physiotherapist without the knowledge that is inside this book.

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