A vast amount of figures and illustrations are included, which highlight historical aspects of fMRI, as well as the physics and the psychological principles behind this imaging technique. Patient-derived images provide relevant examples and further convey the ideas presented throughout the text. Questions presented throughout the book engage the reader and confirm that he or she is comprehending the important concepts covered in the text. Each chapter ends with a summary to ensure the reader understands the key concepts and a list of suggested readings to enhance the understanding of information introduced in that section. To further assist the reader, this book also has a companion website with free study questions for each chapter, a list of links to websites with additional information, as well as an online glossary highlighting the important terms used throughout the textbook. This book serves as a great read for students interested in the medical or physical sciences, researchers or physicians utilizing fMRI in their research or treatment regimens, or those just interested in fulfilling their curiosity of this imaging technique.

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Thiem e Atlas of Anatomy: General Anatomy and Musculoskeletal System. Second Edition. By Michael Schuenke, Erik Schulte, Udo Schumacher, and Lawrence M. Ross. New York: Thieme Medical Publishers, Inc.; 2014. US $77.99 (Paperback). 609 p. ISBN: 978-1604069228.

The Thiem e Atlas of Anatomy: General Anatomy and Musculoskeletal System, second edition, is an exceptional resource for anyone studying anatomy with an emphasis on the musculoskeletal system. The Thiem e Atlas of Anatomy, unlike many other anatomical atlases, combines illustrations with descriptive text and tables and clinical applications. Thus, this text not only functions as a clinically focused atlas, but also a standalone anatomical textbook.

The authors approach the study of anatomy in a manner that builds complexity, starting with basic human embryology and development, then moving onto surface anatomy, bones, joints, muscles, vessels, and innervation, followed by an in-depth study of the trunk wall, upper limb, and lower limb. Each chapter notably emphasizes the important relationship between anatomical structure and function as well as introduces clinical applications.

The most remarkable feature of this atlas is the set of extraordinarily realistic illustrations created for the first edition, in an attempt to provide both students and providers with a fresh approach to the subject matter. New to the second edition are 30 two-page spreads devoted to clinical pathology that include osteoarthritis of the hip joint, compression syndromes of peripheral nerves, conduction anesthesia of peripheral nerves, shoulder arthroscopy and degenerative changes of the shoulder joint, functions of individual muscles and the symptoms associated with weakening of these muscles, and diagnostic imaging of the large joints. The second edition also contains clinically important imaging for plain film, CT, and MRI scans related to musculoskeletal anatomy and pathology that are presented in parallel with the anatomical illustrations.

This edition also comes with access to WinkSkull.com PLUS, an online resource that contains more than 500 full-color illustrations and radiographs not contained in the text. In addition to the image bank that can be studied with labels-on and labels-off, this online resource can be used by students to self-assess their understanding of the material by taking timed tests with instant results.

This book is an ideal text not only for students of various disciplines studying anatomy for the first time, but it also serves as a valuable resource for faculty and providers. The well-organized summary tables are ideal for readers who are interested in a quick anatomical review.

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Essential Cell Biology. Fourth Edition. By Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, and Peter Walter. New York: Garland Science; 2013. US $121.94 (Hardcover). 864 p. ISBN: 978-0815344544.

Essential Cell Biology, fourth edition, provides an up-to-date introduction to the fundamental concepts of cell biology as well as rapidly growing fields such as stem cell biology, development, and cancer. With 20 chapters, the book covers topics such as macromolecules, DNA replication, gene transcription, cell membranes, cytoskeleton, and the cell-division cycle. This book is ideal for students taking an introductory cell or molecular biology course, yet is also suitable for individuals looking to simply refresh their understanding of some of the basics of cell biology. The book engages the reader with commentary such as: “What does it mean to be living? Petunias, people, and pond scum are all alive; stones, sand, and summer breezes are not. But what are the fundamental properties that characterize living things and distinguish them from nonliving matter?” In addition, the authors provide a clear overview at the beginning of each chapter and highlight the essential points that will be covered. Furthermore, throughout the book, they consistently relate the newly covered material with the material in the previous chapters. While the text is clear, the authors still provide a thorough tour of the many branches of cell biology and show how these concepts are relevant to biomedical applications. New concepts are generally given in combination with several graphical representations to orient the reader. In addition, they provide a greatly expanded Question