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This textbook presents the most recent evidenced-based knowledge in basic sciences in anesthesia. It covers topics from the syllabus of the American Board of Anesthesiology (ABA) basic science exam, including anatomy, pharmacology, physiology, physics in anesthesia, and more. In each chapter, key points summarize the content, followed by a pertinent and concise discussion of the topic, ending with multiple choice questions with answers and suggested further reading. Basic Sciences in Anesthesia is aimed at residents taking the ABA basic science of anesthesia examination, and any other anesthesiologist or trainee with an interest in the topic. This second edition provides 2400 multiple choice questions on human anatomy and physiology, and some physical science, separated into 40 categories. The answer to each question is accompanied by an explanation. Each category has an introduction to set the scene for the questions to come. However, not all possible information is provided within these Introductions, so an Anatomy and Physiology textbook is an indispensable aid to understanding the answers. The questions have been used in end-of-semester examinations for undergraduate anatomy and physiology courses and as such reflect the focus of these particular courses and are pitched at this level to challenge students that are beginning their training in anatomy and physiology. The question and answer combinations are intended for use by teachers, to select questions for their next examinations, and by students, when studying for an upcoming test. Students enrolled in the courses for which these questions were written include nursing, midwifery, paramedic, physiotherapy, occupational therapy, nutrition and dietetics, health sciences, exercise science, and students taking an anatomy and physiology course as an elective.

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