

## Physics Applied To Anaesthesia

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 Introduction Physics is a natural science's attempt to describe the fundamental laws of the world around us. 2. Introduction As anaesthesiologists we deal with liquids and gases under pressure at varying temperatures and volumes. These inter-relationships are simple, measurable and their understanding ensures a safe outcome for the patient.

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Physics Applied to Anaesthesia explains to doctors the concepts of physics and its applications in the field of anesthesiology. The book discusses topics in physics in relation to the field of anesthesiology, which include the fundamental concepts of mechanics; the different properties of liquids and gases; the gas laws; and heat. The text also covers topics more specific to anesthesiology and medicine such as anesthetic vaporizers; automatic lung ventilators and respirators; and the electrical, fire, and explosion hazards in the operating room. The monograph is recommended for anesthesiologists who would like to be familiarized with the different principles and concepts related to their field and the administration of its related drugs.

As in the previous editions, the authors have clearly defined the principles of clinical measurement. Mathematics are kept to a simple, understandable level with the frequent use of practical examples. Well established at the level between undergraduate teaching and advanced medical physics, this extensively illustrated book is for trainees and examination candidates in anaesthesia and intensive care. Senior nursing, operating theatre and intensive care staff will also find it appropriate.

From reviews: "Its warm and familiar style of writing makes it accessible for all. Throughout each of the 29 chapters, there was a real feel that the authors knew what was needed of you... Many of the questions I spent hours flicking through appendices in other books for were clearly answered here... There is a nice feel to this book. It is as if someone has sat down and really thought about each chapter. It feels more like your clever friend than a textbook. Current curricula have been considered, as have common themes and questions. In conclusion, although I have always believed that examination topics, with all randomness and occasional obscurity, can and never will be fully covered by a solo text, this book comes close. It is an excellent core text for anyone needing to learn physics in anaesthesia." European Journal of Anaesthesiology, April 2014 "Overall, Physics in Anaesthesia succeeds in providing a concise and easy to read review text covering what has historically been a dry and difficult to present topic. The book is easy to understand and sufficiently covers most topics one would expect from such a book. It seems well suited for those studying for exams, but it can also serve as a good reference text for all levels of anaesthesia providers." Anesthesiology, September 2013 "This is an excellent refreshing and practical text when compared with various older textbooks on physics for anaesthesia... The text is written in a concise, uncomplicated, and easily understood manner, and representative clinical scenarios are often used... In my view, this is a superb teaching textbook on basic physics... I would recommend this textbook to our Anaesthesia Post-Graduate Program!" Canadian Journal of Anesthesia (2012) 59: 1161-1162 "...a refreshing change from the more traditional textbooks with their pages of derivations and small, bland, obscure figures..." Technic: The Journal of Operating Department Practice, May 2012 Volume Issue 3 "...this text provides a fantastic resource for those wishing to consolidate their learning... A major strength of this book is its clear writing style. The well organised text is supported by excellent diagrams and highlighted key terms. There are clear learning objectives at the beginning of each chapter, with a short summary and a multiple choice question test at the end... Overall, this is an excellent resource and essential revision tool." Nursing Standard, June 2012, 30 vol. 26 no. 41 "This is a book specifically for anaesthesia professionals written by anaesthetists, physicists and perfusionists. After reading the book cover to cover I can say without reservation, it is most certainly the easiest book on physics I have ever read. The simple and intuitive layout, easy to understand diagrams, relevant objectives and the quizzes at the end of each chapter help me expand my understanding of topics I was already a master of. That is saying something. This book is not just a "must have" for students of anaesthesia and any prospective anaesthesia students looking to brush up before training but also for the working Nurse Anaesthetists as a quick and easy to use reference." www.nurse-anaesthesia.org, June 2012 Physics in Anaesthesia caters especially for those who consider themselves non-physicists. It covers the FRCA syllabus in an informative and accessible way from the very basics, and provides an important link between theory and practice. Worked examples highlight the relevance to clinical practice, and along with graphs and charts, make the basics of physics understandable not only to doctors, but also to operating department practitioners and students. It does not assume that readers will have A level physics. Two different types of self-assessment questions at the end of each chapter will test understanding of the key concepts, while a summary section for each topic is ideal as a rapid refresher, highlighting any problem areas.

A concise book that conveys the essential physics concepts required to pass the FRCA viva examinations, with relevant applied questions.

This book discusses, explains and provides detailed, up-to-date information on physics applied to clinical practice in anesthesiology, with the aid of simple examples from daily life. Almost everything that happens around us, including in the operating room and intensive care units, can be explained by physical laws. An awareness and understanding of relatively simple laws such as Bernoulli's theorem, Hagen-Poiseuille equation and Pascal's principle, to name just a few, offer anaesthesiologists and intensivists fascinating insights into why they do what they do. Each of the 16 chapters starts with an everyday phenomenon, explains it with a physical law, and then shows why that law is important in anaesthesia practice. Numerous illustrations are included for extra clarity. It is intended for anaesthesiologists, intensivists, anaesthesia teachers, anaesthesia trainees, and medical students.

Covers essential information on maths, physics and clinical measurement for anaesthesia and critical care.

This definitive resource from the eminent Oxford Textbooks series, the Oxford Textbook of Anaesthesia addresses the fundamental principles, underpinning sciences and the full spectrum of clinical practice. It brings together the most pertinent research from on-going scientific endeavours with practical guidance and a passion to provide the very best clinical care to patients. This comprehensive work covers all aspects of anaesthesia: volume one addresses the fundamental principles and the basic sciences whose understanding is required for a logical, effective and evidence-based approach to practice. Volume two focuses on the clinical aspects of anaesthesia, including those aspects of intensive care and pain medicine that are required by all general anaesthetists as well as sections dedicated to procedures, surgical specialities, paediatrics, the conduct of anaesthesia outside the theatre, and concurrent disease. In 91 finely crafted and highly illustrated chapters, experts in anaesthesia review the supporting evidence and key techniques for the clinical management of specific conditions and patient groups. International contributors share their research and extensive experience to provide a wealth of practical advice for use in clinical situations in a global context. The Oxford Textbook of Anaesthesia will publish both in print and online on Oxford Medicine Online where it can be accessed via smartphone or similar devices and will be updated annually to reflect major changes in clinical practice. The print edition of the Oxford Textbook of Anaesthesia comes with a year's access to the online version. This essential reference tool supports all anaesthetists seeking an up-to-date and trustworthy account of all aspects of anaesthesia. It will be an indispensable guide to anaesthetists of all grades and subspecialty interest.

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