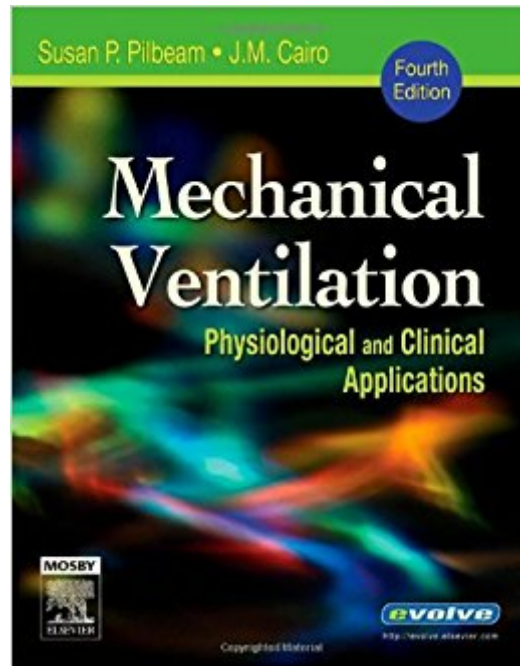


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# Mechanical Ventilation: Physiological And Clinical Applications, 4e



## **Synopsis**

Reorganized to better reflect the order in which mechanical ventilation is typically taught, this text focuses on the management of patients who are receiving mechanical ventilatory support and provides clear discussion of mechanical ventilation and its application. The 4th edition features two-color illustrations, an increased focus on critical thinking, a continued emphasis on ventilator graphics, and several new chapters including non-invasive positive pressure ventilation and long-term ventilation. Excerpts of the most recent CPGs are included to give students important information regarding indications/contraindications, hazards and complications, assessment of need, assessment of outcome, and monitoring. Clinical Rounds boxes contain problems that may be encountered during actual use of equipment and raise questions for the student to answer. Case studies are included as boxes throughout the chapters within boxes and Clinical Rounds. Historical Notes provide educationally or clinically relevant information. Chapters featuring topics such as methods to improve ventilation, frequently used pharmacologic agents in ventilated patients, cardiovascular complications, pulmonary complications, noninvasive positive pressure ventilation, and long-term ventilation have been added. Key Point boxes have been placed sporadically throughout the chapters and highlight key information for the reader. Increased number of NBRC-type questions reflecting the types of questions and amount of coverage on the board exams. Respected educator J.M. Cairo has been added as co-author, bringing in a fresh voice and a wide breadth of experience. A reorganization of chapters creates a text that is more in line with the way the course is typically taught. All chapters have been heavily revised and updated, particularly the chapters on ventilator graphics, methods to improve oxygenation, and neonatal and pediatric ventilation. A second color has been added to enhance the overall design and line drawings. Key terms are listed at the beginning of each chapter and highlighted at first mention.

## **Book Information**

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## Customer Reviews

I have just started my pulmonology residency and I have to say this book is a life-saver! It is a great resource. It has everything in a concise, straight-forward manner. It has helped me out of many a Grand Rounds jam. I highly highly recommend this book.

While this book is written primarily for respiratory therapists, it is equally helpful for medical residents. I work in ICU as a resident and have been looking for a good book that explains mechanical ventilation well. This book is excellent for that purpose. This book explains a lot of the nuts and bolts of mechanical ventilation. This detailed information is often lacking in most critical care textbooks. And yet, as MDs, we are supposed to know them when we care for our patients. This book provides those vital information so that we can manage our ventilated patients competently and confidently. The chapters are very well organized. It builds basic concepts progressively in a systematic manner. The graphs and diagrams are excellent to assist understanding. The clarity of the text is also impressive. Most things are very well explained. The sign of a good textbook is often reflected by the fact the complicated mechanisms are explained by simple sentences. The author does it particularly well. This is a great book for any resident who works in ICU or ED.

Anyone starting out as a nurse, paramedic or other medical professional who encounters vents needs this book. It does a very good job of connecting the biology, chemistry and physics of positive pressure ventilation with the clinical findings at hand. The book has a large number of examples in each chapter that help to illustrate the lessons. I bought a couple of books on the subject to prepare for the flight medic exam, and this is the only one worth keeping.

My instructor rarely used this book because he was a great teacher, however when studying for the RRT Exam, this became my best reference! Are you trying to figure out how you are gonna pay your bills and student loans while looking for a Respiratory job? If you are like many new grads, jobs are hard to come by. When my friend introduced me to owning my own business, I freaked out! I was

nervous and didn't know what to do then I went here--->> [workfromhome25k.com](http://workfromhome25k.com) and joined and I haven't looked back since! Give it a try. Apply the strategies and Rock Out!

This volume has much to recommend it but I will focus on just two. Firstly, it contains a clear description of the types and variation between current (and earlier) devices that enables a Clinical Engineer to better understand the pros and cons of a given device selection. There are illustrations and discussions of a variety of device designs complete with basic internal diagrams as well as breathing circuits. Do you want to see a respirator made in a jam tin? Then this is the book for you. Secondly there is a wealth of clearly explained clinical detail to ensure the subtleties of this important and complex topic can be understood by a Clinical Engineer. I found the discussions on the techniques used in home (or long term) ventilation particularly enlightening. I believe it will make a welcome addition to any Clinical Engineer's professional library.

Recently expanded my practice to include critical care respiratory therapy. Found this book an excellent introductory primer to all the important basic concepts necessary to understand mechanical ventilation. Highly recommend this as an introductory text for Acute / Critical Respiratory Care.

This was required for my Respiratory program, but I would still recommend this book. It contains a lot of good material on management of pts on vents, etc, and makes a good reference...

Excellent book for reference, but way beyond my knowledge.

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