Volume 1

ANESTHESIA

SECOND EDITION

Edited by

Ronald D. Miller, M.D.

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Ronald D. Miller, M.D.

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Professor of Pharmacology
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University of California, San Francisco
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San Francisco, California

CHURCHILL LIVINGSTONE
New York, Edinburgh, London, Melbourne 1986

Acquisitions editor: *Toni M. Tracy*
Copy editor: *Michael Kelley*
Production designer: *Rosalie Marcus*
Production supervisor: *Sharon Tuder*
Compositor: *Progressive Typographers, Inc.*
Printer/Binder: *The Maple-Vail Book Manufacturing Group*

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Distributed in the United Kingdom by Churchill Livingstone, Robert Stevenson House, 1–3 Baxter's Place, Leith Walk, Edinburgh EH1 3AF and by associated companies, branches and representatives throughout the world.

First published in 1986

Printed in U.S.A.

ISBN 0-443-08328-2

9 8 7 6 5 4 3 2 1

Library of Congress Cataloging-in-Publication Data
Main entry under title:

Anesthesia.

Includes bibliographies and index.
1. Anesthesia. I. Miller, Ronald D., date.
[DNLM: 1. Anesthesia. WO 200 A573]
RD81.A54 1986 617'.96 85-17446
ISBN 0-443-08328-2

Manufactured in the United States of America

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PREFACE

Since its publication in 1981, the first edition of *Anesthesia* has become a standard text for the specialty of anesthesia nationally and internationally. My original intent was to focus on the major areas of new development in anesthesia that had occurred over the last 20 years. Despite the very gratifying success of the first edition, the contributors and I recognized that the addition of new material and radical revision would be necessary to retain *Anesthesia*'s position as a standard reference textbook. As a result, the second edition is expanded to provide a broad foundation to the science and clinical practice of our specialty. In addition to the complete revision and updating of the original 46 chapters, 22 new chapters have been added to provide a more in-depth and detailed dissertation on the various subspecialties, and on the physiologic, pharmacologic, and clinical situations associated with anesthesia, making this new edition a truly comprehensive reference text.

The first seven chapters, six of which are new additions, provide the historical, legal, and scientific basis of anesthesia. Five of the last seven chapters are also new and provide an overview of critical care medicine. Other new chapters are sprinkled throughout the text to provide a comprehensive view of the physiology, pharmacology, and clinical principles of anesthesia.

As in the first edition, each contributor was asked to provide a scholarly analysis of the specific topic. Each chapter was written in sufficient depth to provide the fundamental scientific and/or clinical basis of anesthesia for the trainee as well as the practicing clinician. Although no absolute limit on the number of references was imposed, each reference was chosen to allow the reader to further investigate an issue in a more in-depth manner. Because each chapter represents a complete dissertation of a given topic, duplication of specific issues (e.g., preoperative evaluation of hypertension, or succinylcholine and intraocular pressure) often occurs. Because a uniform point of view was not imposed, contributors often present varying or opposing opinions on a given topic. These differences of opinion will provide the reader with a more realistic and complete review of controversial topics.

The contributors were chosen because of their acknowledged expertise in the particular areas. Despite their very busy schedules, the contributors provided their unqualified commitment to this project, which has allowed the second edition to be published in a timely, yet scholarly manner. Without their commitment, the second edition would not exist. They have my deepest gratitude.

Churchill Livingstone, especially Toni Tracy, Donna Balopole, Michael Kelley, and Rosalie Marcus, provided constant support, encouragement, and flexibility during the entire project. Although he has since moved to another publisher, Lewis Reines has been an inspirational force since he originally proposed this project in 1978.

All my colleagues at the University of California, San Francisco, were very patient and supportive, for which I am most appreciative. A special thank you to Susan M.S. Ishida is in order. Her organizational and editorial efforts were a significant factor in the successful completion of the second edition. Last, but not least, I am grateful to my family and friends for their patience during the preparation of *Anesthesia*. Their encouragement and understanding were a continuing source of strength.

Ronald D. Miller, M.D.

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