Illustrated Handbook of Cardiac Surgery

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Illustrated Handbook of Cardiac Surgery

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*To our wives, Sharon, Victoria, and Sara
and to our families,
whose love and support
made this book possible*

Preface

The *Illustrated Handbook of Cardiac Surgery* is adapted from the Second Edition of the color illustrated *Manual of Cardiac Surgery* (Springer-Verlag, 1995). The *Illustrated Handbook of Cardiac Surgery* communicates all the important information, but eliminates the detailed explanation of judgment and technique that is relevant only to cardiac surgeons or other individuals intensely interested in these details. The chapters covering operations explain the basic concepts and fundamentals of the operations. A selection of the most important bibliographic sources follows each chapter, but are not cited in the text. Individuals interested in more exhaustive coverage of information sources should consult the Second Edition of the *Manual of Cardiac Surgery*.

The *Illustrated Handbook of Cardiac Surgery* should appeal to all individuals caring for cardiac surgical patients: cardiologists, anesthesiologists, radiologists, general surgery residents rotating on cardiac surgery, medical students, physician assistants, nurses, perfusionists, and all other members of the cardiac surgery team. It should even appeal to laypeople who want to read about cardiac surgery in more depth than is available in lay publications. Our attempt has been to produce a book that is clearly written, clearly illustrated, and affordable.

The techniques chosen are those developed over three decades of clinical practice and resident training at the Oregon Health Sciences University and St. Vincent Hospital, Portland, Oregon, and Sutter Memorial Hospital, Sacramento, California. These techniques have served us well.

The first author moved from the Oregon Health Sciences University to Sutter Memorial Hospital in Sacramento in 1981. During the ensuing decade some of the techniques used by the first two authors have evolved in different directions. Where this is the case, the text indicates where the technique shown is used at the present time.

The text authors are proud to have the illustrator, Mr. Fredric Harwin, as coauthor. Mr. Harwin has been a significant contributor to the basic concepts and intellectual substance of the book. His art is a powerful instrument of education.

It is hoped that this book will increase knowledge and understanding of cardiac surgery and thereby improve patient care.

Bradley J. Harlan, M.D.
Albert Starr, M.D.

A medical illustrator must understand the philosophies and techniques of the scientist as well as those of the artist. For the *Illustrated Handbook of Cardiac*

Surgery I worked with Dr. Harlan and Dr. Starr to create illustrations that allow the reader to visualize the surgical field as the surgeon sees it. For each illustration, I drew upon direct observation, operative photographs, fresh specimens, and, most importantly, extensive consultations with my surgeon co-authors. The sequence of creation was, first, discussion of desired illustrations, then a rough sketch, consultation with the surgeons, finished pencil drawing, another consultation, then the final rendering. These renderings were then checked against actual surgery for accuracy in representation of tissues, instrumentation, tissue responses to manipulation, and consistency of representation.

Close communication between artist and surgeon is essential to produce illustrations that are both anatomically and surgically correct and artistically viable.

Fredric M. Harwin

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