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## Preface

Nearly four decades ago, reverse shoulder arthroplasty (RSA) was introduced to orthopedic surgeons with the aim of helping reduce shoulder pain and dysfunction in the most severe pathological states. Its contribution to the treatment of advanced shoulder diseases has been significant. Patients who were previously untreatable due to the severity of their pathology are now receiving pain relief and functional improvements. There have been numerous significant contributions made to the development of RSA, the most notable being the Delta III prosthesis, introduced by Paul Grammont. Following his contribution, there have been many others who have provided substantial information on RSA's mechanics, effectiveness, technical application, potential complications, and value. Each author in this book has been carefully chosen based on their contributions to peer-reviewed literature. As in all fields of scientific endeavor, a variety of viewpoints have been formed and reflected in this textbook. My hope is that this diversity of opinion will provide the reader with a better overall understanding of RSA and its potential to treat severe shoulder conditions. After an introduction to the history of the technique, Part II of this textbook is devoted to the biomechanics and kinematics of RSA. Part III describes its clinical use for treating a myriad of shoulder pathologies. Here you will discover surgeons, renowned worldwide for their expertise in RSA, sharing their experiences with relevant technical pearls. Part IV covers commercially available devices from a variety of manufacturers, with the surgical technique and design rationale for each device provided. Finally, in Part V, the economic aspects of this technology are examined from a societal perspective.

I would like to first acknowledge my wife Mary, who passed away unexpectedly during the production of this book. Mary was an extraordinarily loving and giving person who will forever be missed. No doubt many of the authors in this book knew her and were impacted in some way by her life. I also want to acknowledge my son Nick and my daughter Lauren for their support of my career and the development of this book. Next, I would like to acknowledge my assistant editors Scott Marberry and Derek Pupello who have devoted an extraordinary amount of time and effort to this textbook. I am grateful to the many authors who have contributed their extensive knowledge, and to the patients who have entrusted us with their care. Finally, I would like to acknowledge Rachel Clark and the research staff at the Foundation for Orthopedic Research and Education (FORE) who have continued to be supportive of this endeavor with their hearts, minds, and souls.

With gratitude,

Mark Frankle

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