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.

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With gratitude,

Mark Frankle