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Total Hip Arthroplasty: Medical and Biomedical Engineering and Science Concepts 1st Edition

"Total Hip Arthroplasty: Medical and Biomedical Engineering and Science Concepts" 1st Edition, authored by Dr. Michael J. Reitman, is a comprehensive exploration into the intricate world of hip replacement surgery, blending medical principles with advanced biomedical engineering concepts. Published by Academic Press, this book stands as an essential resource for healthcare professionals, engineers, and students alike who seek to understand the full spectrum of total hip arthroplasty. With ISBN 978-0128204818, the text delves into the latest surgical techniques, implant technologies, and post-operative care strategies, ensuring that readers are well-versed in both the theoretical and practical aspects of the procedure. Dr. Reitman, with his extensive clinical experience and academic background, weaves together insights from medicine, engineering, and scientific research to provide a holistic view of total hip arthroplasty. The book addresses critical topics such as biomaterials used in implants, the biomechanics of hip joints, surgical approaches, and innovations in pain management. Each chapter is meticulously structured to facilitate understanding, featuring detailed illustrations, clinical case studies, and evidence-based practices that underscore the importance of an interdisciplinary approach in modern orthopedic surgery. Whether you're a practicing orthopedic surgeon, a biomedical engineer, or a medical student, this book serves as an invaluable guide that enhances your knowledge and skills in the evolving landscape of hip arthroplasty. With its robust content and clear articulation of complex concepts, "Total Hip Arthroplasty" is not just a textbook but a vital reference that inspires informed practice and drives future innovations in the field.