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S. Imura, M. Wada, H. Omori (Eds.)

Joint Arthroplasty

With 285 Figures, Including 3 in Color



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Preface

The introduction of total joint arthroplasty throughout the world has contributed manifold benefits to patients who suffer from joint diseases. Concurrently, however, there has been an increase in revision surgery. Many orthopedic surgeons agree that durability of prostheses is an eternal problem. In particular, periprosthetic osteolysis recently has been identified as one of the serious problems affecting prosthetic durability. To improve durability, osteolysis and many other problems must be investigated and solved both experimentally and clinically with respect to such aspects as prosthetic material, design, and biological and biomechanical behavior.

This book comprises 37 papers that were presented by orthopedic surgeons and biomedical engineers at the 28th Annual Meeting of the Japanese Society for Replacement Arthroplasty, held in March 1998 in Kanazawa, Japan. The volume is thus a compilation of the latest knowledge about the pathogenesis and reduction of osteolysis and wear, newly developed total hip prostheses, and other current topics of total knee arthroplasty.

We earnestly hope that this book will be of benefit to clinicians and researchers, and that it will contribute to the creation of more durable total joint prostheses in the future.

SHINICHI IMURA

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