



## Hip Biomechanics

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It was a great honor for us to preside over the Hip Biomechanics Symposium, held on November 19, 1992, in Fukui City, Japan. We believe it was the first interdisciplinary conference on biomechanical approaches to hip disorders; this volume contains the presentations made at the conference. The information found here will be of value not only for orthopedic surgeons but also for researchers. The advent of biomechanical approaches to hip dis- ease has made possible the understanding of fundamental hip pathologies, an understanding which enables us to institute the appropriate non-surgical or surgical treatment. Indeed, efficient surgical planning is not possible without taking these approaches. This comprehensive volume consists of six major sections: loading, gait analyses, THA, osteotomies, motion analyses, and stem designs for stability. Each of these sections brings together many of the leading researchers in this field. We hope this volume will be a spur to future understanding of and on fruitful research on hip disorders. The Editorial Committee wish to express their deep gratitude to the contri- butors and the publisher. Shinichi Imura Noriya Akamatsu Hirohiko Azuma Kazuhiko Sawai Seisuke Tanaka v Table of Contents Preface...V I Hip Joint and Loading 1 Two-Dimensional Finite Element Analysis for Stress Distribution in Normal and Dysplastic Hips Nobuo Konishi...3 2 Stress Distribution at Hip Joint During Level Walking Kazuhiko Sakamoto, Yoshinobu Hara, Akira Shimazu, and Kenji Hirohashi ...11 ...3 Biomechanical Studies of the Hip Utilizing Computer Simulation Takatoshi Ide, Yasuhiro Yamamoto, and Shigeru Tatsugi ...21 .

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