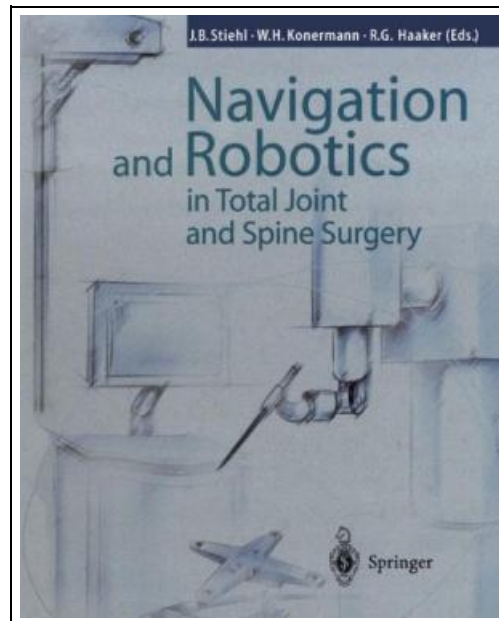


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Condition: New. Publisher/Verlag: Springer, Berlin | Orthopaedic surgery is unfortunately just a few moments past the sunrise of computer implementation for the performance of surgery itself. Orthopedics has always seemed to have a nearly unique, overarching characteristic - it deals almost exclusively with alteration, typically rebuilding or reconstituting structure. What we do has more of a structural impact than a physiologic one, even when compared to the structural alterations introduced by vascular and cardiac surgery. This structural reconstitution contrasts strongly with the largely excisional characteristic of most other surgical fields. The relevance of this feature is that Orthopedics, as much as any, and more than most, needs precision of cutting, alignment, and replacement. As we contrast the rudimentary tools, we use in our operating rooms with the sophisticated robotic, computerized, and more extensively mechanized equipment of industry, we seem very far behind. We are almost ancient considering the pace of development and change over the last fifty years. Many question the need, practicality, expense and therefore ultimate acceptance of these methods into orthopedics. However, the quality I mention above, leads me to believe that eventually, hi-tech involving computer assistance and including robotic tools, will almost take over. The current era is and will be appreciated as a beginning time when new equipment and techniques are introduced, bugs worked out, and valuable tools refined, nearly perfected, with costs lowered. | Preface: J.B. Stiehl, W. Konermann and R. Haaker Foreword: Ken Krackow, Buffalo, USA | Computer Assisted Orthopaedic Surgery 1. Basics of Computer Assisted Orthopaedic Surgery (CAOS) (L.-P. Nolte, Bern, CH) 2. CT-based Image Guided Systems (B. Jaramaz, A.M. DiGioia III, Pittsburgh, USA) 3. Computer Integrated Systems without CT (S.D. Stulberg, Chicago, USA) 4. Bone morphing: 3D Reconstruction without Pre- or Intra-Operative Imaging. Concept and Applications (E....

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