



# **Biological, Material, and Mechanical Considerations of Joint Replacement (Bristol- Myers Squibb/Zimmer Orthopedic Symposium)**

*Bernard F., M.D. Morrey*

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This volume provides a thorough, critical evaluation of materials and prosthetic designs used in joint replacement arthroplasty. More than 70 international experts in orthopaedic surgery, orthopaedic research, and biomedical engineering review the worldwide experience with these devices, integrating findings from clinical practice, basic biology, and biomaterial and biomechanics research. The contributors examine recent studies on the interface of cemented and uncemented devices, discuss concerns regarding the articulation and wear debris from metal and polyethylene implants, review case reports of toxicity oncogenesis from prosthetic materials, and assess the risk fo allergy to these materials. Important manufacturing and regulatory issues are also addressed. The concluding chapters outline future directions from clinical and basic research.



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