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Nota di contenuto	Kinematics of the Native and Arthritic Knee -- Alignment Options for the Modern TKA -- Individualizing alignment in TKA with the use of image-based robotic assistance -- Mako Robotic Arm-Assisted Unicompartmental Knee Arthroplasty -- Medial Pivot Implant and Patient Specific Instrumentation -- Surgical Technique of Bicruciate-Retaining Total Knee Arthroplasty - Anatomic and surgical considerations of Bicruciate-Retaining TKA -- Current concepts in predictive modeling and artificial intelligence -- Updates on Computer-Assisted Navigation in Unicompartmental Knee Arthroplasty (UKA) and Total Knee Arthroplasty (TKA) -- Smart Tibial Trays -- Advances in Medial UKA -- Bi-Compartmental and Bi-Unicondyar Knee Arthroplasty -- Osteotomies for Knee Arthritis -- Planning bone and soft-tissue management during revision knee reconstruction -- Periprosthetic Knee Infection: The Multidisciplinary Oxford Bone Infection Unit Experience -- Sports after UKA and TKA -- Advances in Pain Management and DVT prophylaxis -- Cementless Total Knee Arthroplasty -- The Future of the Modern TKA -- A Systematic Review of Kinematic Alignment and Implants in Total Knee Arthroplasties -- Knee Distraction for Managing Knee Osteoarthritis -- Lateral

Unicompartmental Knee Replacement surgery for lateral knee osteoarthritis.

Sommario/riassunto

The field of adult reconstructive surgery for the treatment of knee arthritis is rapidly advancing. Several paradigms associated with the management of knee arthritis are being challenged and debated, and currently, there is no arthroplasty text available that bridges knee alignment options with various implant choices and technological advances available to the knee arthroplasty surgeon. This book focuses on exploring the current technical and technological advances in the surgical management of knee arthritis. It covers various implant options for partial knee replacements (UKA) and primary and revision total knee replacements (TKA) along with various technological advances such as navigation, robotics, patient-specific instrumentation, pressure sensing tibial trays, and customized implants. It also explores surgical algorithms associated with kinematic alignment, mechanical alignment and revision scenarios with soft-tissue and bony defects. A truly international editorship and authorship ensures a wide variety of opinions and approaches from around the world. Generously illustrated with intraoperative photographs, Surgical Management of Knee Arthritis presents the latest, cutting-edge techniques and technologies on the market for orthopedic surgeons, residents and fellows.