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Nota di contenuto	The Evolution of Cartilage Restoration -- The Osteochondral Unit: The Importance of the Underlying Subchondral Bone -- Imaging in Cartilage Restoration -- "A Unifying Theory" Treatment Algorithm for Cartilage Defects -- Osteochondritis Dissecans of the Knee -- Tibiofemoral Malalignment -- Meniscal Considerations in Cartilage Surgery -- Patholaxity (Ligamentous) Issues -- Patellofemoral Issues -- Staging and Practical Issues in Complex Cases -- Orthobiologics: Today and Tomorrow -- The Regulatory Environment for Emerging Cartilage Repair Technologies -- The Role of Stem Cells in Surgical Repair -- The Role of MSCs for non-surgical Treatment of OA -- Debridement -- Marrow Stimulation and Augmentation -- Augmented Marrow Stimulation for Cartilage Repair -- Osteochondral Autograft Transfer -- Osteochondral Allograft -- Perforated Allograft Cartilage -- Autologous Chondrocyte Implantation (ACI) -- Arthroscopic Matrix-Induced Autologous Chondrocyte Implantation -- Particulated Cartilage Auto- and Allograft -- Cell-free scaffolds for the treatment of chondral and osteochondral lesions -- Osteotomy for Tibiofemoral Malalignment -- Patellofemoral Osteotomies -- Meniscal Allograft Transplantation Techniques -- Meniscal Augmentation and Replacement (Menaflex, Actifit, Nusurface) -- Unloading devices -- Emerging technologies in

cartilage repair.

Sommario/riassunto

Now in a revised and expanded second edition, this practical text utilizes the most current evidence and knowledge of articular cartilage as the basis for clinical interventions for cartilage repair and restoration, combining an overview of clinical research and methodologies with clinical cases to help guide the orthopedic treatment and care of patients presenting with cartilage issues. Carefully updated chapters discuss the state-of-the-art in cartilage anatomy, defects and imaging, current tibiofemoral and patellofemoral surgical options, debridement and marrow stimulation, osteochondral autografts and allografts, osteotomies, cell therapy, and meniscal transplantation. New chapters explore new surgical treatment strategies and revision for failed cartilage repair, case vignettes presenting real-life treatment decisions and outcomes, and rehabilitation protocols following cartilage repair. Written and edited by experts in the field and bringing the most recent literature and research to bear, *Cartilage Restoration* remains a valuable resource on joint preservation for orthopedic surgeons, residents, and fellows, sports medicine specialists and rheumatologists.