Completely revised and updated, the third edition of this classic text reflects the latest advances in research on orthopaedic biomechanics and the successful applications of biomechanical principles in fracture fixation, prosthetic implant design, and hip and knee arthroplasty.

For this third edition, Dr. Mow is joined by new co-editor Rik Huiskes, PhD, an Editor-in-Chief of the Journal of Biomechanics and an internationally renowned authority in the field. New chapters cover biomaterials, biomechanical principles of cartilage and bone tissue engineering, and biomechanics of fracture fixation and fracture healing.