Spinal Reconstruction: Clinical Examples of Applied Basic Science, Biomechanics and Engineering

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With an ever-expanding array of biomaterials and implant devices appearing in the field, **Spinal Reconstruction: Clinical Examples of Applied Basic Science, Biomechanics and Engineering** helps surgeons assess and utilize the latest technologies to improve the reconstruction of the spine and enhance the reconstitution of diseased spinal segments. With illustrative descriptions of specific clinical scenarios, this guide helps surgeons select the best devices and materials for reconstructive procedures and considers issues in biocompatibility, biostability, and structure-function relationships for enhanced patient outcomes and mobility.

With more than 350 figures and photographs, this book:

- Details current strategies in minimally invasive spine surgery as currently applied to the lumbar spine
- Covers the myriad of patient factors, orthobiologic grafting alternatives, and technique-driven mechanical options encountered in spinal care and reconstruction
- Identifies new surgical techniques for spinal fusion, vertebral compression fractures, and arthroplasty
- Discusses the basic mechanisms and clinical application of currently available operative treatments
- Supplies the most up-to-date information on the evaluation, diagnosis, and operative treatment of spinal pain, deformity, and disease

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