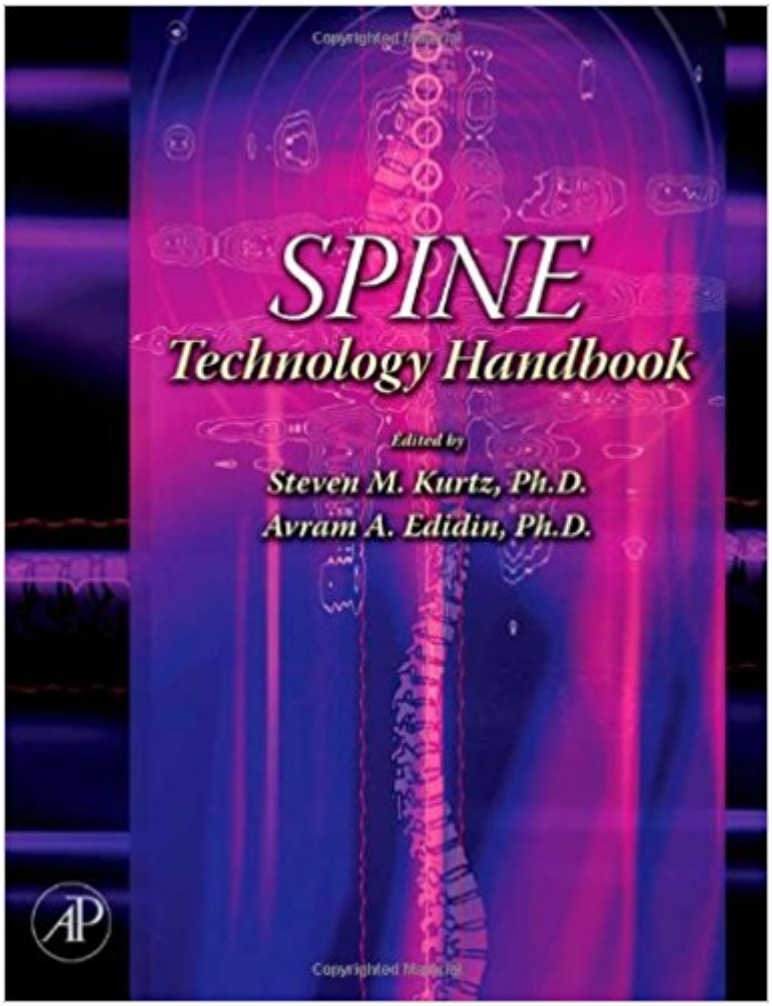
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Spine Technology Handbook



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Synopsis

Over the past decade, there has been rapid growth in bioengineering applications in the field of spine implants. Spine Technology Handbook explains the technical foundation for understanding and expanding the field of spine implants, reviews the major established technologies related to spine implants, and provides reference material for developing and commercializing new spine implants. The editors, who have a track record of collaboration and editing technical books, provide a unified approach to this topic in the most comprehensive and useful book to date.Related website provides the latest information on spine technology including articles and research papers on the latest technology and developmentMajor technologies reviewed include devices used for fusion (screws, plates, rods, and cages), disc repair and augmentation, total disc replacement, and vertebral body repair and augmentationTechnology landscape, review of published/public domain data currently available, and safety and efficacy of technology discussed in detail

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The one source for cutting-edge information on spine technology.

Dr. Kurtz has been researching ultra-high molecular weight polyehtylene(UHMWPE) for use in orthopedics for over 10 years. He has published dozens of papers and several book chapters related to UHMWPE used in joint replacement. He has pioneered the development of new test methods for the material in orthopedics. Dr. Kurtz has authored national and international standards

for medical upgrade UHMWPE.As a principle engineer at Exponent, an international engineering and scientific consulting company, his research on UHMWPE is supported by several major orthopedic manufacturers. He has funding from the National Institutes for Health to stdy UHMWPE changes after implanatation in the body, as well as to develop new computer-based tools to predict the performance of new UHMWPE materials.Dr. Kurtz is the Director of an orthopedic implant retrieval program in Philadelphia which is affiliated with Drexel University and Thomas Jefferson University. He teaches classes on the performance of orthopedic polymers (including UHMWPE) at Drexel, Temple, and Princeton Universities.

All what you need to know about spine devices actually in use. Pros and cons. Great for engineers and designers engaged in the design of medical devices for spine.

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