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Autore	Ahmed A. Karim
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Descrizione fisica	1 online resource (232 pages) : illustrations
Disciplina	610.28
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Lingua di pubblicazione	Inglese
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Sommario/riassunto	"The past decade has seen major advances in image-guided spine surgery techniques, with robotically assisted approaches emerging in the last five years. While early adopters of this technology paved the way for more widespread use of navigated and robotic systems, barriers still exist. Navigation and Robotics in Spine Surgery by master spine surgeon Alexander Vaccaro and esteemed co-editors Jaykar Panchmatia, David Kaye, and Srinivas Prasad addresses existing issues such as the perception of increased upfront costs, intrusion on current workflow, and a lack of understanding about the potential ways these technologies can enhance the surgical experience and improve patient outcomes. Organized into six sections, the book starts with evidence-based fundamentals of navigated spine surgery and robotics including discussion of instrumentation and mechanics. Sections 2-5 serve as a surgical handbook for spine surgeons who wish to introduce these technologies into practice or augment their current repertoire with more complex techniques. Topics range from more routine procedures such as navigated and robotic minimally invasive TLIF to complex approaches like intraoperative ultrasound guided intradural spinal tumor resection. The final section looks at future directions and potential new applications for these technologies. Key Highlights An

impressive group of international spine surgeons who pioneered navigation and robotic surgery techniques share invaluable tricks of the trade. Discussion of fluoroscopy- and intraoperative CT-based platforms, applications for intraoperative sonography, and radiation exposure and minimization strategies. Special topics include OR set-up and workflow, surmounting the learning curve, artificial intelligence, and lessons learned from other industries"--

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