The most comprehensive book on spinal deformities to date, detailing the latest surgical techniques for a wide range of common to rare neuromuscular pathologies, in 27 well-illustrated chapters.

The comprehensive content derives from the authors’ collective years of hands-on expertise, evidence-based knowledge from the literature, and multicenter scoliosis studies performed by the prestigious Harms Study Group, a worldwide research-based association of spine surgeons. The text begins with discussion of preoperative evaluation, nonoperative management, and surgical considerations such as anesthesia, neuromonitoring, and estimated blood loss. Section two highlights pathology-specific surgical interventions, while sections three and four provide clinical pearls on a wide array of surgical techniques, complications, and patient outcomes.

Key highlights:
Disease-related challenges including dislocated hips, hyperlordotic/hyperkyphotic spine in cerebral palsy, myelomeningocele-related myelodysplasia and spine deformity, Duchenne’s muscular dystrophy, and spinal muscular atrophy
Guidance on assessing the sagittal profile preoperatively and executing it intraoperatively in patients with spinal cord injury
Multiple options for fixation including the new sacral alar iliac screw approach for sacropelvic fixation and correction of pelvic obliquity
Postoperative issues including ICU management, incidence and management of early and late wound infection, instrumentation failure, junctional kyphosis, and cervical extension
Health-related quality of life outcomes in pediatric patients with cerebral palsy who have undergone scoliosis surgery

This state-of-the-art resource is essential reading for orthopaedic surgeons, neurosurgeons, and trainees in these specialties. It is also a must-have reference for academic programs and institutional departments specializing in pediatric spine pathologies.