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Titolo	Atlas of orthoses and assistive devices // [edited by] Joseph Webster, Jr., Douglas Murphy
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ISBN	0-323-55426-1
Edizione	[5th ed.]
Descrizione fisica	1 online resource (vii, 480 pages) : illustrations (chiefly color)
Disciplina	617/.9
Soggetti	Orthopedic apparatus Orthotic Devices Biomechanical Phenomena Orthopedic Fixation Devices Self-Help Devices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Preceded by AAOS atlas of orthoses and assistive devices / [edited by] John D. Hsu, John W. Michael, John R. Fisk. 4th ed. c2008.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Section 1: Section basics -- Introduction -- The orthotic prescription -- Materials science -- Principles of fabrication -- Principles of normal and pathologic gait -- Section spinal orthoses -- Section 2: Spinal orthoses. Biomechanics of the spine -- Principles and components of spinal orthoses -- Orthoses for spinal pain -- Orthoses for spinal deformities -- Orthoses for spinal trauma and postoperative care -- Orthoses for osteoporosis -- Section 3: Upper limb orthoses. Biomechanics of the upper limb -- Principles and components of upper limb orthoses -- Upper limb orthoses for the stroke and brain-injured patient -- Upper limb orthoses for persons with spinal cord injury and brachial plexus injuries -- Orthoses for the burned hand -- Orthotic considerations for arthritis and overuse syndromes in the upper extremity -- Functional bracing of selected upper limb fractures -- Section 4: Lower limb orthoses. Biomechanics of the hip, knee, and ankle -- Foot biomechanics -- Shoes and shoe modifications -- Foot orthoses -- Lower limb orthoses -- Lower limb orthoses for persons with spinal cord injury -- Orthoses in total joint arthroplasty -- Knee orthoses for sports-related issues -- Orthotic management of neuropathic and dysvascular feet -- Orthotic management of polio and

postpolio syndrome -- Lower limb orthoses for persons who have had a stroke -- Assessment and orthotic management of gait dysfunction in individuals with traumatic brain injury -- Section 5: Pediatric orthoses. Congenital and acquired disorders -- Pediatric hip orthoses -- Orthoses for the muscle disease patient -- Orthoses for cerebral palsy -- Orthoses for myelomeningocele -- Cranial remolding orthoses -- Section 6: Assistive devices. Canes, crutches, and walkers -- Wheeled mobility: evaluation for orthotic seating and positioning -- Wheeled mobility: device prescription and care -- Wheelchair and assistive device considerations for remote settings -- Communication devices and electronic aids -- Sports adaptations and assistive devices for recreation -- Driving and related assistive devices -- Neuromuscular stimulation -- Exoskeletal assisted rehabilitation after spinal cord injury -- Future trends and research in orthoses.

Sommario/riassunto

"Advances in the material sciences, 3D printing technology, functional electrical stimulation, smart devices and apps, FES technology, sensors and microprocessor technologies, and more have lately transformed the field of orthotics, making the prescription of these devices more complex than ever before. Atlas of Orthoses and Assistive Devices, 5th Edition, brings you completely up to date with these changes, helping physiatrists, orthopaedic surgeons, prosthetists, orthotists, and other rehabilitative specialists work together to select the appropriate orthotic device for optimal results in every patient"--Publisher's description.
