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Autore	Brushart Thomas M
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Descrizione fisica	1 online resource (476 p.)
Disciplina	617.4/81044
Soggetti	Nervous system - Wounds and injuries Nervous system - Regeneration Nerves, Peripheral - Surgery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Peripheral nerve anatomy and function -- Touch -- Motion -- Determining clinical outcomes -- Clinical nerve repair and grafting -- Determining experimental outcome -- Outcomes of experimental nerve repair and grafting -- The nerve gap : beyond autograft -- Nerve regeneration -- Specificity in nerve regeneration -- Systems of organization after nerve repair or transfer -- Treatment strategies.
Sommario/riassunto	Peripheral nerves are biologic wires that convey the desire for motion from brain to muscle, and the experience of touch from skin to brain. When a nerve is cut, the individual fibers, or axons, must regenerate from the site of injury to reconnect with their skin and muscle targets. Nerve regeneration is a process of bewildering complexity that requires the coordinated action of multiple biologic systems. Gene expression within the neuron is altered to support axon growth, regenerating axons must cross the complex environment of the nerve injury and enter pathways that lead to functionally app