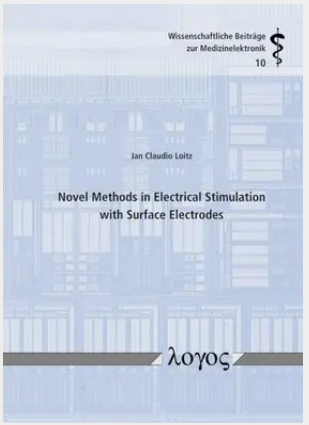
Loitz

Novel Methods in Electrical Stimulation with Surface Electrodes

New methods around the application of electrical stimulation with surface electrodes to support hand motor recovery in persons with stroke are derived and presented in this thesis. To solve recurring problems associated with electrical stimulation in rehabilitation, a simulation environment was created that models the behavior of electrically stimulated nerves. Experimental trials with healthy volunteers and stroke survivors validated simulation results and created knowledge for the further development of electrical stimulation systems. Concepts and prototypes for a more intuitive and effective use of electrical stimulation have been developed and can serve as a template for future innovative rehabilitation devices.



45,00 €
42,06 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783832548858
Medium: Buch
ISBN: 978-3-8325-4885-8
Verlag: Logos
Erscheinungstermin: 15.04.2019
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2019
Serie: Wissenschaftliche Beiträge zur Medizinelektronik
Produktform: Kartoniert
Seiten: 169
Format (B x H): 145 x 210 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)