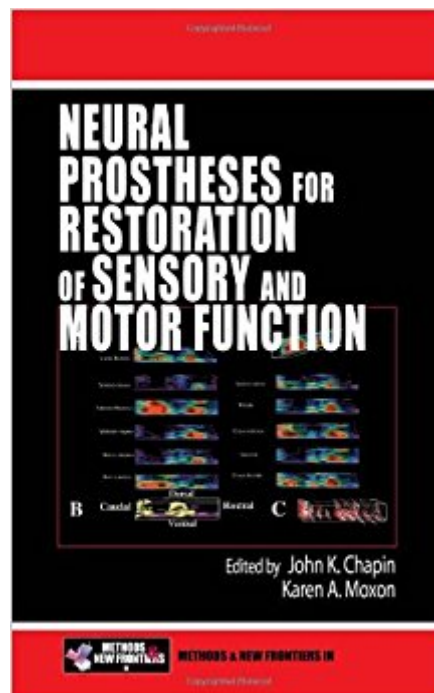




Ebook Directory
the best source of ebook

The book was found

Neural Prostheses For Restoration Of Sensory And Motor Function (Frontiers In Neuroscience)



Synopsis

The prospect of interfacing the nervous system with electronic devices to stimulate or record from neural tissue suggests numerous possibilities in the field of neuroprosthetics. While the creation of a "six million dollar man" may still be far into the future, neural prostheses are rapidly becoming viable theories for a broad range of patients with injury or disease of the nervous system. *Neural Prostheses for Restoration of Sensory and Motor Function* presents a general review of exciting scientific discoveries that show the feasibility of using electronic devices to restore motor function in paralyzed patients. The book is divided into two sections. The first section details some of the most successful sensory and motor prosthetic devices available. It pays particular attention to the present usefulness and future promise of these devices. It explores different approaches to the use of functional electrical stimulation for the restoration of motor control. The second section highlights the growing field of brain-implantable devices for the control of artificial prosthetic devices or neural prosthetics. It considers the possible scientific and clinical advantages of using implanted devices to record signals from the nervous system and the use of those signals for the restoration of neurological function. The book presents research data that relates to the feasibility of using brain-controlled neurorobotic devices. It offers a new perspective on the practice of combining neurochemical and neurophysiological information to create prosthetic control devices that restore chemical balance to the brain. *Neural Prostheses for Restoration of Sensory and Motor Function* examines several different types of neural prosthetic devices as well as recent advances in research for novel devices to restore sensory and motor function in patients with neural damage. It provides authoritative information on neural prosthetic techniques and applications - specifically in relation to the sensory and motor systems of the brain.

Book Information

Series: Frontiers in Neuroscience

Hardcover: 312 pages

Publisher: CRC Press; 1 edition (September 27, 2000)

Language: English

ISBN-10: 0849322251

ISBN-13: 978-0849322259

Product Dimensions: 0.8 x 6 x 9 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars 1 customer review

Best Sellers Rank: #5,643,244 in Books (See Top 100 in Books) #52 in Books > Textbooks > Medicine & Health Sciences > Medicine > Special Topics > Prosthesis #286 in Books > Medical Books > Medicine > Prosthesis #1162 in Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology

Customer Reviews

It was good to find this book since there aren't many books out there that cover this subject. I was disappointed, however, to find that sensory prostheses were covered so lightly. I am personally aware of much more knowledge that could have been covered with regard to visual prosthetics.

[Download to continue reading...](#)

Neural Prostheses for Restoration of Sensory and Motor Function (Frontiers in Neuroscience)
Anatomy and Physiology Study Guide: Key Review Questions and Answers with Explanations
(Volume 3: Nerve Tissue, Spinal Nerves & Spinal Cord, Cranial Nerves & Brain, Neural Integrative,
Motor & Sensory Systems, Autonomic Nervous System, Special Senses) Theoretical Neuroscience:
Computational and Mathematical Modeling of Neural Systems (Computational Neuroscience Series)
Busy Toddler, Happy Mom: Over 280 Activities to Engage your Toddler in Small Motor and Gross
Motor Activities, Crafts, Language Development and Sensory Play Toward Replacement Parts for
the Brain: Implantable Biomimetic Electronics as Neural Prostheses (MIT Press) Toward
Replacement Parts for the Brain: Implantable Biomimetic Electronics as Neural Prostheses
(Bradford Books) Volkswagen Bay Transporter Restoration Manual: The Step-by-Step Guide to the
Entire Restoration Process (Restoration Manuals) Principles of Neural Science, Fifth Edition
(Principles of Neural Science (Kandel)) Neural Networks for Beginners: An Easy-to-Use Manual for
Understanding Artificial Neural Network Programming The Sensory Team Handbook: A hands-on
tool to help young people make sense of their senses and take charge of their sensory processing
Everyday Games for Sensory Processing Disorder: 100 Playful Activities to Empower Children with
Sensory Differences Raising a Sensory Smart Child: The Definitive Handbook for Helping Your
Child with Sensory Processing Issues, Revised Edition The Parent's Guide to Occupational Therapy
for Autism and Other Special Needs: Practical Strategies for Motor Skills, Sensory Integration, Toilet
Training, and More Songames for Sensory Processing: 25 Therapist Created Musical Activities for
Improving Fine and Gross Motor Skills, Muscle Strength, and Rhythmicity Clinical Neuroanatomy
and Neuroscience: With STUDENT CONSULT Access, 6e (Fitzgerald, Clinical Neuroanatomy and
Neuroscience) 6th (sixth) Edition by FitzGerald MD PhD DSC MRIA, M. J. T., Gruener MD MBA, Gr
[2011] Fundamental Neuroscience, Fourth Edition (Squire,Fundamental Neuroscience) The

Cognitive Neuroscience of Vision (Fundamentals of Cognitive Neuroscience) Frontiers in Health
Policy Research: Volume 7 (NBER Frontiers in Health Policy) A Guide for Desert and Dryland
Restoration: New Hope for Arid Lands (The Science and Practice of Ecological Restoration Series)
Extreme Restoration: A comprehensive guide to the restoration and preservation of antique clocks

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)