



Handbook of Neuroprosthetic Methods (Biomedical Engineering)

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Work in the field of neuroprosthetics requires multidisciplinary teams, but these collaborators must meet on common ground to develop an understanding of the capabilities and limitations of each part of a bioengineering project. The Handbook of Neuroprosthetic Methods provides a comprehensive resource for the techniques, methodologies, and options available to properly design and undertake experiments within the field of neuroprosthetics. It combines the most commonly employed concepts, applications, and knowledge from the many disciplines associated with neuroprosthetic research to foster more effective, profitable, and productive collaborations.

From basic neurophysiology to emerging technologies, this book provides a clear introduction to the entire range of neuroprosthetic systems. Each chapter includes background information, methodology, illustrative figures that clarify experimental methods, and tables that outline and compare experimental choices. The last part of each chapter provides practical applications and examples that relate the topic to the actual design and implementation of a neuroprosthetic system or device.

Through its exploration of a variety of developmental processes, the book provides guidance on issues that have yet to be solved, strategies for solving such problems, and the pitfalls often encountered when developing neural prostheses. Whether you are new to or a veteran of the field, whether you work directly or indirectly with neuroprosthesis projects, the Handbook of Neuroprosthetic Methods provides an accessible common ground for all involved in neuroprosthetic design and research.

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