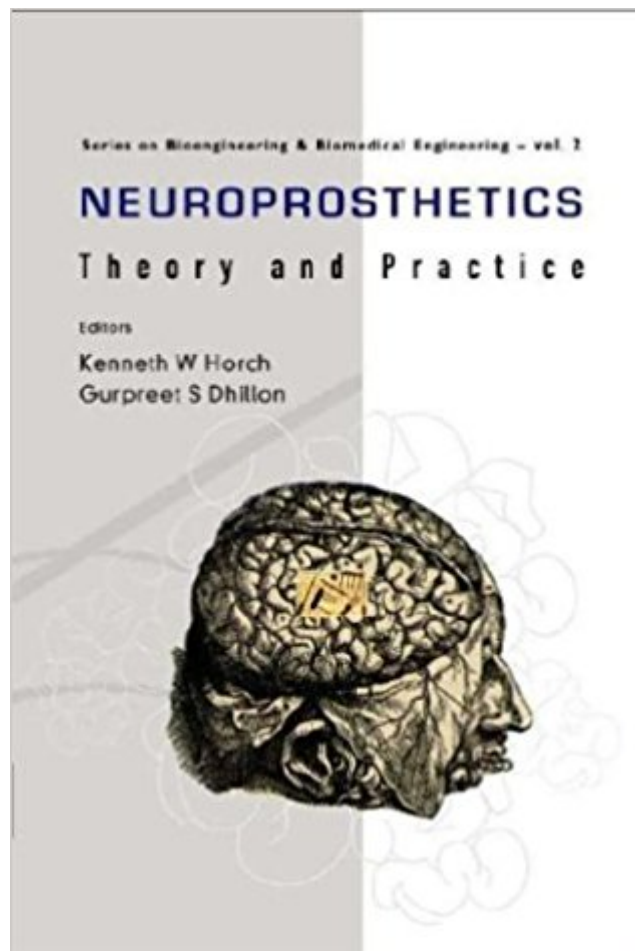




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# **Neuroprosthetics: Theory And Practice (Series On Bioengineering & Biomedical Engineering - Vol. 2)**



## Synopsis

Neuroprosthetics is an area of intense scientific and clinical interest and rapid progress. Since the introduction of the cardiac pacemaker in 1932, we have seen developments that include cochlear prostheses, techniques for bladder and bowel control, deep brain stimulation, and restoration of mobility and respiration to paralyzed individuals. The chapters in this book have been contributed by authors who are recognized internationally in their fields. The result is a comprehensive and up-to-date review that will be invaluable to graduate students, clinicians and researchers in neuroprosthetics. It is broadly divided into three sections: Section 1 provides a core of knowledge that forms a foundation for the rest of the book, and covers the basics of neuroanatomy and neurophysiology, biomaterials and biocompatibility, stimulation and recording techniques; Section 2 describes current clinical applications of neuroprosthetics; Section 3 looks at future developments in the field.

## Book Information

Series: Bioengineering & Biomedical Engineering (Hardcover) (Book 3)

Hardcover: 1288 pages

Publisher: World Scientific Publishing Company (February 1, 2004)

Language: English

ISBN-10: 9812380221

ISBN-13: 978-9812380227

Product Dimensions: 6.5 x 3 x 10 inches

Shipping Weight: 4.9 pounds

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Best Sellers Rank: #4,261,756 in Books (See Top 100 in Books) #41 in Books > Textbooks > Medicine & Health Sciences > Medicine > Special Topics > Prosthesis #202 in Books > Medical Books > Medicine > Prosthesis #820 in Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology

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