

Neural Interfacing



Neural Interfacing

Forging the Human-Machine Connection

Susanne D. Coates

**SYNTHESIS LECTURES ON
BIOMEDICAL ENGINEERING**

John D. Enderle, Series Editor

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In the past 50 years there has been an explosion of interest in the development of technologies whose end goal is to connect the human brain and/or nervous system directly to computers. Once the subject of science fiction, the technologies necessary to accomplish this goal are rapidly becoming reality. In laboratories around the globe,

research is being undertaken to restore function to the physically disabled, to replace areas of the brain damaged by disease or trauma and to augment human abilities. Building neural interfaces and neuro-prosthetics relies on a diverse array of disciplines such as neuroscience, engineering, medicine and microfabrication just to name a few. This book presents a short history of neural interfacing (N.I.) research and introduces the reader to some of the current efforts to develop neural prostheses. The book is intended as an introduction for the college freshman or others wishing to learn more about the field. A resource guide is included for students along with a list of laboratories conducting N.I. research and universities with N.I. related tracks of study. Table of Contents: Neural Interfaces Past and Present / Current Neuroprosthetic Research / Conclusion / Resources for Students

作者介绍:

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