



Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology)

From Brand: CRC Press



Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press

New technologies that allow us to investigate mechanisms and functions of the brain have shown considerable promise in treating brain disease and injury. These emerging technologies also provide a means to assess and manipulate human consciousness, cognitions, emotions, and behaviors, bringing with them the potential to transform society. **Neurotechnology: Premises, Potential, and Problems** explores the technical, moral, legal, and sociopolitical issues that arise in and from today's applications of neuroscience and technology and discusses their implications for the future.

Some of the issues raised in this thought-provoking volume include:

- Neurotechnology in education: an enablement, a treatment, or an enhancement?
- The potential and limitations of neuroimaging technology in determining patient prognoses
- Tissue implantation technology as a way of engendering personalized medicine
- Neuroprostheses: restoration of functions of the disabled vs. enhancement to transhuman capabilities
- Deep brain stimulation and its use in restoring, preserving, or changing patients' personal identity
- The benefit and risk of cognitive performance tools
- Cyborg technology and its potential to change our vision of humanity
- Methodologies for reducing the risk of neurotechnology's impact on ethical, legal, and social issues

With contributions from an international group of experts working on the cutting edge of neurotechnology, this volume lays the groundwork to appreciate the ethical, legal, and social aspects of the science in ways that keep pace with this rapidly progressing field.

 [Download Neurotechnology: Premises, Potential, and Problems ...pdf](#)

 [Read Online Neurotechnology: Premises, Potential, and Proble ...pdf](#)



Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology)

From Brand: CRC Press

Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press

New technologies that allow us to investigate mechanisms and functions of the brain have shown considerable promise in treating brain disease and injury. These emerging technologies also provide a means to assess and manipulate human consciousness, cognitions, emotions, and behaviors, bringing with them the potential to transform society. **Neurotechnology: Premises, Potential, and Problems** explores the technical, moral, legal, and sociopolitical issues that arise in and from today's applications of neuroscience and technology and discusses their implications for the future.

Some of the issues raised in this thought-provoking volume include:

- Neurotechnology in education: an enablement, a treatment, or an enhancement?
- The potential and limitations of neuroimaging technology in determining patient prognoses
- Tissue implantation technology as a way of engendering personalized medicine
- Neuroprostheses: restoration of functions of the disabled vs. enhancement to transhuman capabilities
- Deep brain stimulation and its use in restoring, preserving, or changing patients' personal identity
- The benefit and risk of cognitive performance tools
- Cyborg technology and its potential to change our vision of humanity
- Methodologies for reducing the risk of neurotechnology's impact on ethical, legal, and social issues

With contributions from an international group of experts working on the cutting edge of neurotechnology, this volume lays the groundwork to appreciate the ethical, legal, and social aspects of the science in ways that keep pace with this rapidly progressing field.

Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press Bibliography

- Sales Rank: #3239805 in Books
- Brand: Brand: CRC Press
- Published on: 2012-04-26
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x .90" w x 6.10" l, 1.35 pounds
- Binding: Hardcover
- 354 pages

 [Download Neurotechnology: Premises, Potential, and Problems ...pdf](#)

 [Read Online Neurotechnology: Premises, Potential, and Proble ...pdf](#)

Download and Read Free Online Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press

Editorial Review

About the Author

James Giordano, PhD, is Director of the Center for Neurotechnology Studies at the Potomac Institute for Policy Studies, Arlington, Virginia, Fulbright Professor of Neuroscience, Neurotechnology and Ethics at the Human Science Center of Ludwig-Maximilians University, Munich, Germany, and Research Professor of Neurosciences and Ethics in the Department of Electrical and Computational Engineering at the University of New Mexico in Albuquerque. His ongoing research addresses the ethical issues that are generated from neuroscientific and neurotechnological research and its applications in medicine, public life, and sociocultural conduct.

Users Review

From reader reviews:

Gary Rose:

Throughout other case, little individuals like to read book Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology). You can choose the best book if you'd prefer reading a book. Provided that we know about how is important the book Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology). You can add understanding and of course you can around the world by the book. Absolutely right, due to the fact from book you can realize everything! From your country right up until foreign or abroad you can be known. About simple issue until wonderful thing you are able to know that. In this era, you can open a book or even searching by internet device. It is called e-book. You should use it when you feel bored to go to the library. Let's examine.

Mary Oliveras:

Now a day people who Living in the era wherever everything reachable by interact with the internet and the resources included can be true or not require people to be aware of each info they get. How people have to be smart in getting any information nowadays? Of course the correct answer is reading a book. Examining a book can help persons out of this uncertainty Information mainly this Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) book because book offers you rich data and knowledge. Of course the information in this book hundred % guarantees there is no doubt in it you may already know.

Sophia Hartman:

The book with title Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) has a lot of information that you can study it. You can get a lot of help after read this book. This particular book exist new understanding the information that exist in this publication represented the condition of the world today. That is important to yo7u to understand how the improvement of the world. That book will bring you

inside new era of the the positive effect. You can read the e-book in your smart phone, so you can read that anywhere you want.

Gloria Todd:

In this period globalization it is important to someone to get information. The information will make someone to understand the condition of the world. The condition of the world makes the information quicker to share. You can find a lot of sources to get information example: internet, magazine, book, and soon. You can see that now, a lot of publisher that will print many kinds of book. The actual book that recommended to you personally is Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) this guide consist a lot of the information from the condition of this world now. This book was represented just how can the world has grown up. The dialect styles that writer use for explain it is easy to understand. The writer made some study when he makes this book. Here is why this book suited all of you.

Download and Read Online Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press #P26STQ0EVZ4

Read Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press for online ebook

Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press books to read online.

Online Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press ebook PDF download

Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press Doc

Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press Mobipocket

Neurotechnology: Premises, Potential, and Problems (Advances in Neurotechnology) From Brand: CRC Press EPub