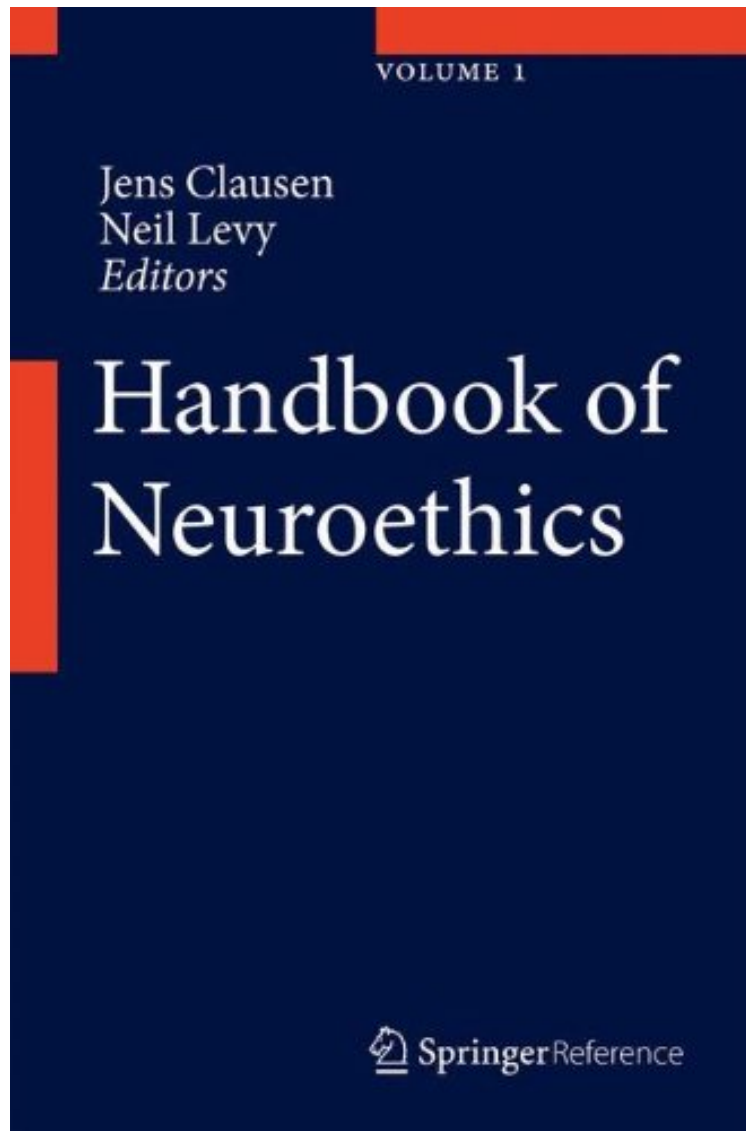


Handbook of Neuroethics

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0 of 0 people found the following review helpful. Neuroscience and EthicsBy Joseph J GrenierHandbook of NeuroethicsSpringer: New York, Berlin, Heidelberg.Reviewer: Joseph Grenier MD PhD MPHThis is a comprehensive reference work on neuroscience, neurology, neurosurgery, morality, animal research, human subject research. The neurophysiology of causation, mental judgment, and abstract reasoning in epistemology is studied. The mental and

psychological models of reasoning, intuition, and cognition is treated in several hundred pages. The Oppenheim-Putnam models are introduced and related to other neurocomputational theories including single and systems research. The role of multidimensional channels in the CNS is discussed with reference to frontal, parietal, visual, and audition physiology. Bayesian and other statistical theories are portrayed in reference to entropy and thermodynamics. Single neuron computationalism is also worked on here. The morality of law, addiction models, and judgment are nicely covered. Ethical treatments of psychosurgery and stereotactic functional neurosurgery is excellent. Medical subject clinical trials and animal research controversies have a good analysis from the ethics of Medicine. End of life questions are also discussed. I highly recommend this book for ethicists, neurologists, neurosurgeons, philosophers, and students in Ethics Research.

Based on the study of neuroscientific developments and innovations, examined from different angles, this Handbook provides a comprehensive overview of the international neuroethical debate, and offers unprecedented insights into the impact of neuroscientific research, diagnosis, and therapy. Neuroethics as a multi-disciplinary and inter-disciplinary endeavor examines the implications of the neurosciences for human beings in general and for their self-understanding and their social interactions in particular. The range of approaches adopted in neuroethics and thus in this handbook includes but is not limited to historical, anthropological, ethical, philosophical, theological, sociological and legal approaches. The Handbook deals with a plethora of topics, divided into in three parts: the first part contains discussions of theories of neuroethics and how neuroscience impacts on our understanding of personal identity, free will, and other philosophical concepts. The second part is dedicated to issues involved in current and future clinical applications of neurosciences, such as brain stimulation, brain imaging, prosthetics, addiction, and psychiatric ethics. The final part deals with neuroethics and society and includes chapters on neurolaw, neurotheology, neuromarketing, and enhancement.

This is a comprehensive reference work on neuroscience, neurology, neurosurgery, morality, animal research, human subject research. I highly recommend this book for ethicists, neurologists, neurosurgeons, philosophers, and students in Ethics Research. (Joseph J. Grenier, .com, May, 2015) From the Back Cover Neuroethics as a multi-disciplinary and inter-disciplinary endeavor examines the implications of the neurosciences on human beings in general and on their self-understanding and their social interactions in particular. The range of approaches adopted in neuroethics includes but is not limited to historical, anthropological, ethical, philosophical, theological, sociological and legal approaches. Based on the study of neuroscientific developments and innovations, examined from different angles, this Handbook provides a comprehensive overview of the international neuroethical debate, and offers unprecedented insights into the impact of neuroscientific research, diagnosis, and therapy. This Handbook deals with a plethora of topics divided into in three parts: the first part contains discussions of theories of neuroethics, identity, free will, as well as other philosophical considerations. The second part is dedicated to issues involved in current and future clinical applications of neurosciences, such as brain stimulation, brain imaging, prosthetics, addiction, and psychiatric ethics. The final part deals with neuroethics and society and includes chapters on neurolaw, neurotheology, neuromarketing, and enhancement. About the Author Jens Clausen is head of the neuroethics group at the Institute for Ethics and History of Medicine, University of Tbingen and managing director of the Clinical Ethics Committee of the University Hospital Tbingen. He also is a member of the Center for Integrative Neuroscience (CIN) and the research ethics commission. His research focuses on ethical and anthropological implications of modern neurosciences with special respect to brain technological devices, enhancement and regenerative medicine. His most recent publication in the field of Neuroethics is a double special issue on ethical aspects of neurotechnologies published in Springer's journal Neuroethics Vol. 6 No. 3, 2013. Neil Levy is an Australian Research Council Future Fellow, based at the Florey Institute of Neuroscience and Mental Health, Melbourne, Australia. He works mainly on questions at the intersection of the sciences of the mind and ethics, as well as free will. His most recent books are *Hard Luck* (Oxford UP, 2011) and *Consciousness and Moral Responsibility* (Oxford UP, 2014). He is editor-in-chief of the journal Neuroethics.