

# MIND WARS



**BRAIN SCIENCE AND THE MILITARY  
IN THE 21<sup>ST</sup> CENTURY**

**JONATHAN D. MORENO**

# Mind Wars Brain Science And The Military In The 21st Century

**Andrew Bickford**



## **Mind Wars Brain Science And The Military In The 21st Century:**

**Mind Wars** Jonathan D. Moreno, 2012-05-01 One of the most important thinkers describes the literally mind boggling possibilities that modern brain science could present for national security LAWRENCE J KORB former US Assistant Secretary of Defense Fascinating and frightening Bulletin of the Atomic Scientists The first book of its kind Mind Wars covers the ethical dilemmas and bizarre history of cutting edge technology and neuroscience developed for military applications As the author discusses the innovative Defense Advanced Research Projects Agency DARPA and the role of the intelligence community and countless university science departments in preparing the military and intelligence services for the twenty first century he also charts the future of national security Fully updated and revised this edition features new material on deep brain stimulation neuro hormones and enhanced interrogation With in depth discussions of psyops mind control experiments drugs that erase both fear and the need to sleep microchip brain implants and advanced prosthetics supersoldiers and robot armies Mind Wars may read like science fiction or the latest conspiracy thriller but its subjects are very real and changing the course of modern warfare Jonathan D Moreno has been a senior staff member for three presidential advisory commissions and has served on a number of Pentagon advisory committees He is an ethics professor at the University of Pennsylvania and the editor in chief of the Center for American Progress online magazine Science Progress

**Chemical Heroes** Andrew Bickford, 2020-11-16 In Chemical Heroes Andrew Bickford analyzes the US military's attempts to design performance enhancement technologies and create pharmacological supersoldiers capable of withstanding extreme trauma Bickford traces the deep history of efforts to biologically fortify and extend the health and lethal power of soldiers from the Cold War era into the twenty first century from early adoptions of mandatory immunizations to bio protective gear to the development and spread of new performance enhancing drugs during the global War on Terrorism In his examination of government efforts to alter soldiers' bodies through new technologies Bickford invites us to contemplate what constitutes heroism when armor becomes built in wired in and even edited into the molecular being of an American soldier Lurking in the background and dark recesses of all US military enhancement research Bickford demonstrates is the desire to preserve US military and imperial power

**Military Ethics and Emerging Technologies** Timothy J. Demy, George R. Lucas Jr., Bradley J. Strawser, 2016-01-08 This volume looks at current and emerging technologies of war and some of the ethical issues surrounding their use Although the nature and politics of war never change the weapons and technologies used in war do change and are always undergoing development Because of that the arsenal of weapons for twenty first century conflict is different from previous centuries Weapons in today's world include an array of instruments of war that include robotics cyber war capabilities human performance enhancement for warriors and the proliferation of an entire spectrum of unmanned weapons systems and platforms Tactical weapons now have the potential of strategic results and have changed the understanding of the battle space creating ethical legal and political issues unknown in the pre 9 11 world What do these

technologies mean for things such as contemporary international relations the just war tradition and civil military relations Directed at readers in the academic scientific military and public policy communities this volume offers current thought on ethics and emerging technologies from internationally recognized scholars addressing the full spectrum of issues in present warfare technology It includes current and ongoing topics of multi discipline and international interest such as ethics law international relations war studies public policy science and technology This book was originally published in various issues and volumes of the Journal of Military Ethics

**Can Science End War?** Everett Carl Dolman, 2015-10-14 Free roaming killer drones stalk the battlespace looking for organic targets Human combatants are programmed to feel no pain Highpower microwave beams detonate munitions jam communications and cook internal organs Is this vision of future war possible or even inevitable In this timely new book Everett Carl Dolman examines the relationship between science and war Historically science has played an important role in ending wars think of the part played by tanks in breaching trench warfare in the First World War or atom bombs in hastening the Japanese surrender in the Second World War but to date this has only increased the danger and destructiveness of future conflicts Could science ever create the conditions of a permanent peace either by making wars impossible to win or so horrific that no one would ever fight Ultimately Dolman argues that science cannot on its own end war without also ending what it means to be human

**Neurotechnology in National Security and Defense** James Giordano, 2014-09-25 Neurotechnology in National Security and Defense Practical Considerations Neuroethical Concerns is the second volume in the Advances in Neurotechnology series It specifically addresses the neuroethical legal and social issues arising from the use of neurotechnology in national security and defense agendas and applications Of particular concern are the use of various neurotechnologies in military and intelligence operations training acquisition of neurobiological and cognitive data for intelligence and security military medical operations warfighter performance augmentation and weaponization of neuroscience and neurotechnology The contributors discuss the neuroethical questions and problems that these applications generate as well as potential solutions that may be required and developed The book examines how developments in neurotechnology in national security and defense agendas are impacted by and affect ethical values and constructs legal considerations and overall conduct of the social sphere Presenting an integrative perspective leading international experts lay the scientific groundwork and establish the premises necessary to appreciate the ethical aspects of neurotechnology in national security and defense It is not a question of if neurotechnology will be used in such ways but when how and to what extent Therefore it is imperative to foster a deeper understanding of neurotechnology the problems and debates arising from its use in national security and defense and how such issues can and should be addressed In doing so we can guide and govern the use of these innovative neurotechnologies in ways that uphold ethical accountability

Pragmatist Neurophilosophy: American Philosophy and the Brain John R. Shook, Tibor Solymosi, 2014-06-19 A comprehensive exploration of pragmatic themes emerging from neuroscientific research illustrating why neurophilosophy

should take this advancing pragmatist direction seriously      Cyborg Mind Calum MacKellar,2019-04-09 With the development of new direct interfaces between the human brain and computer systems the time has come for an in depth ethical examination of the way these neuronal interfaces may support an interaction between the mind and cyberspace In so doing this book does not hesitate to blend disciplines including neurobiology philosophy anthropology and politics It also invites society as a whole to seek a path in the use of these interfaces enabling humanity to prosper while avoiding the relevant risks As such the volume is the first extensive study in cyberneuroethics a subject matter which is certain to have a significant impact in the 21st century and beyond      Future War Christopher Coker,2015-11-12 Will tomorrow s wars be dominated by autonomous drones land robots and warriors wired into a cybernetic network which can read their thoughts Will war be fought with greater or lesser humanity Will it be played out in cyberspace and further afield in Low Earth Orbit Or will it be fought more intensely still in the sprawling cities of the developing world the grim black holes of social exclusion on our increasingly unequal planet Will the Great Powers reinvent conflict between themselves or is war destined to become much smaller both in terms of its actors and the beliefs for which they will be willing to kill In this illuminating new book Christopher Coker takes us on an incredible journey into the future of warfare Focusing on contemporary trends that are changing the nature and dynamics of armed conflict he shows how conflict will continue to evolve in ways that are unlikely to render our century any less bloody than the last With insights from philosophy cutting edge scientific research and popular culture Future War is a compelling and thought provoking meditation on the shape of war to come      The Pentagon's Brain Annie Jacobsen,2015-09-15 Discover the definitive history of DARPA the Defense Advanced Research Project Agency in this Pulitzer Prize finalist from the author of the New York Times bestseller Area 51 No one has ever written the history of the Defense Department s most secret most powerful and most controversial military science R D agency In the first ever history about the organization New York Times bestselling author Annie Jacobsen draws on inside sources exclusive interviews private documents and declassified memos to paint a picture of DARPA or the Pentagon s brain from its Cold War inception in 1958 to the present This is the book on DARPA a compelling narrative about this clandestine intersection of science and the American military and the often frightening results      The Brain's Body Victoria Pitts-Taylor,2016-01-28 In The Brain s Body Victoria Pitts Taylor brings feminist and critical theory to bear on new development in neuroscience to demonstrate how power and inequality are materially and symbolically entangled with neurobiological bodies Pitts Taylor is interested in how the brain interacts with and is impacted by social structures especially in regard to race class gender sexuality and disability as well as how those social structures shape neuroscientific knowledge Pointing out that some brain scientists have not fully abandoned reductionist or determinist explanations of neurobiology Pitts Taylor moves beyond debates over nature and nurture to address the politics of plastic biosocial brains She highlights the potential of research into poverty s effects on the brain to reinforce certain notions of poor subjects and to justify particular forms of governance while her queer critique

of kinship research demonstrates the limitations of hypotheses based on heteronormative assumptions In her exploration of the embodied mind and the embrained body Pitts Taylor highlights the inextricability of nature and culture and shows why using feminist and queer thought is essential to understanding the biosociality of the brain

**In The Name Of Progress: The Dark Side Of Medical Research** Campion Quinn,2024-09-10 In the Name of Progress The Dark Side of Medical Research is a comprehensive exploration of the dark side of medical progress examining a series of unethical medical experiments conducted over the past century This book delves into notorious cases like the Tuskegee Syphilis Study the Guatemala Syphilis Experiment and the Holmesburg Prison experiments among others to shed light on the ethical violations and exploitation that occurred under the guise of scientific advancement Each chapter methodically uncovers the disturbing details of these studies analyzing the impact on the victims and the long term effects on public trust and medical ethics By providing a critical examination of the ethical breaches in historical medical research this book emphasizes the importance of informed consent the protection of vulnerable populations and the need for stringent ethical standards in medical studies It aims to educate and provoke thoughtful discussion on the balance between scientific discovery and ethical conduct highlighting the necessity of safeguarding human rights in medical research and the importance of maintaining ethical integrity in the pursuit of scientific knowledge

*The Routledge Handbook of Neuroethics* L. Syd M Johnson,Karen S. Rommelfanger,2017-07-20 The Routledge Handbook of Neuroethics offers the reader an informed view of how the brain sciences are being used to approach understand and reinvigorate traditional philosophical questions as well as how those questions with the grounding influence of neuroscience are being revisited beyond clinical and research domains It also examines how contemporary neuroscience research might ultimately impact our understanding of relationships flourishing and human nature Written by 61 key scholars and fresh voices the Handbook s easy to follow chapters appear here for the first time in print and represent the wide range of viewpoints in neuroethics The volume spotlights new technologies and historical articulations of key problems issues and concepts and includes cross referencing between chapters to highlight the complex interactions of concepts and ideas within neuroethics These features enhance the Handbook s utility by providing readers with a contextual map for different approaches to issues and a guide to further avenues of interest Chapter 11 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No Derivatives 3 0 license <https://www.routledgehandbooks.com/doi/10.4324/9781315708652.ch11>

**Super Soldiers** Jai Galliot,Mianna Lotz,2016-03-03 The Spartan City State produced what is probably one of the most iconic and ruthless military forces in recorded history They believed that military training and education began at birth Post World War II saw a shift to army tanks fighter jets and missiles that would go on to fight the next huge battle in Northern Europe Today with the advent of unmanned systems our hopes are attached to the idea that we can fight our battles with soldiers pressing buttons in distant command centres However soldiers must now be highly trained super strong and have the intelligence and mental

capacity to handle the highly complex and dynamic military operating environment It is only now as we progress into the twenty first century that we are getting closer to realising the Spartan ideal and creating a soldier that can endure more than ever before This book provides the first comprehensive and unifying analysis of the moral legal and social questions concerning military human enhancement with a view toward developing guidance and policy that may influence real world decision making

**The Morality of War - Second Edition** Brian Orend,2013-09-10 The first edition of The Morality of War was one of the most widely read and successful books ever written on the topic In this second edition Brian Orend builds on the substantial strengths of the first adding important new material on cyber warfare drone attacks the wrap up of Iraq and Afghanistan conflicts in Libya and Syria and protracted struggles like the Arab Israeli conflict Updated and streamlined throughout the book offers new research tools and case studies while keeping the winning blend of theory and history featured in the first edition This book remains an engaging and comprehensive examination of the ethics and practice of war and peace in today s world

**Military Neuroscience and the Coming Age of Neurowarfare** Armin Krishnan,2016-10-04 Krishnan describes military applications of neuroscience research and emerging neurotechnology with relevance to the conduct of armed conflict and law enforcement This work builds upon literature by scholars such as Moreno and Giordano and fills an existing gap not only in terms of reviewing available and future neurotechnologies and relevant applications but by discussing how the military pursuit of these technologies fits into the overall strategic context The first to sketch future neurowarfare by looking at its potentials as well as its inherent limitations this book s main theme is how military neuroscience will enhance and possibly transform both classical psychological operations and cyber warfare Its core argument is that nonlethal strategies and tactics could become central to warfare in the first half of the twenty first century This creates both humanitarian opportunities in making war less bloody and burdensome as well as some unprecedented threats and dangers in terms of preserving freedom of thought and will in a coming age where minds can be manipulated with great precision

**Impromptu Man** Jonathan D. Moreno,2014-09-22 Impromptu Man captures the remarkable impact of a singular genius J L Moreno whose creations the best known being psychodrama have shaped our culture in myriad ways many unrecognized The record will be set straight for all time by this can t put down biography a tribute by Jonathan D Moreno to his father s masterly legacy DANIEL GOLEMAN author of Emotional Intelligence Why It Can Matter More Than IQ J L Moreno 1889 1974 the father of psychodrama was an early critic of Sigmund Freud wrote landmark works of Viennese expressionism founded an experimental theater where he discovered Peter Lorre influenced Martin Buber and became one of the most important psychiatrists and social scientists of his time A mystic theater impresario and inventor in his youth Moreno immigrated to America in 1926 where he trained famous actors introduced group therapy and was a forerunner of humanistic psychology As a social reformer he reorganized schools and prisons and designed New Deal planned communities for workers and farmers Moreno s methods have been adopted by improvisational theater groups military organizations

educators business leaders and trial lawyers His studies of social networks laid the groundwork for social media like Twitter and Facebook Featuring interviews with Clay Shirky Gloria Steinem and Werner Erhard among others original documentary research and the author s own perspective growing up as the son of an innovative genius *Impromptu Man* is both the study of a great and largely unsung figure of the last century and an epic history taking readers from the creative chaos of early twentieth century Vienna to the wired world of Silicon Valley Jonathan D Moreno called the most interesting bioethicist of our time by the *American Journal of Bioethics* is a professor at the University of Pennsylvania and a Senior Fellow at the Center for American Progress

*Transformed States* Martin Halliwell, 2024-11-15 *Transformed States* offers a timely history of the politics ethics medical applications and cultural representations of the biotechnological revolution from the Human Genome Project to the COVID 19 pandemic In exploring the entanglements of mental and physical health in an age of biotechnology it views the post Cold War 1990s as the horizon for understanding the intersection of technoscience and culture in the early twenty first century The book draws on original research spanning the presidencies of George H W Bush and Joe Biden to show how the politics of science and technology shape the medical uses of biotechnology Some of these technologies reveal fierce ideological conflicts in the arenas of cloning reproduction artificial intelligence longevity gender affirmation vaccination and environmental health Interweaving politics and culture the book illustrates how these health issues are reflected in and challenged by literary and cinematic texts from *Oryx and Crake* to *Annihilation* and from *Gattaca* to *Avatar* By assessing the complex relationship between federal politics and the biomedical industry *Transformed States* develops an ecological approach to public health that moves beyond tensions between state governance and private enterprise To that end Martin Halliwell analyzes thirty years that radically transformed American science medicine and policy positioning biotechnology in dialogue with fears and fantasies about an emerging future in which health is ever more contested Along with the two earlier books *Therapeutic Revolutions* 2013 and *Voices of Mental Health* 2017 *Transformed States* is the final volume of a landmark cultural and intellectual history of mental health in the United States journeying from the combat zones of World War II to the global emergency of COVID 19

**War and Political Theory** Brian Orend, 2019-05-07 In a world that continues to be riven by armed conflict the fundamental moral and political questions raised by warfare are as important as ever Under what circumstances are we justified in going to war Can conflicts be waged in a moral way Is war an inevitable feature of a world driven by power politics What are the new ethical challenges raised by new weapons and technology from drones to swarming attack robots This book is an engaging and up to date examination of these questions and more penned by a foremost expert in the field Using many historical cases it examines all the core disputes and doctrines ranging from realism to pacifism from just war theory and international law to feminism and the democratic peace thesis Its scope stretches from the primordial causes and perennial drivers of war to the cyber centric space age future of armed conflict in the 21st century *War and Political Theory* is essential reading for anyone whether



advanced expert or undergraduate who wants to understand the pressing empirical realities and theoretical issues historical and contemporary associated with armed conflict      **Beyond Consent** Jeffrey P. Kahn, Anna C. Mastroianni, Jeremy Sugarman, 2018 Since the publication of the first edition of *Beyond Consent* issues of justice remain critical in discussions debates and policy making in biomedical research in involving human subjects The second edition adds new content in two different ways first by asking authors to examine the issues identified in the first edition by asking what has changed and what new issues arise in the contemporary environment and second by adding chapters to take on issues that are salient today and looking forward The result is a new treatment of the issues of justice in research through fresh perspectives and by examining the latest issues The editors have assembled a group of leading scholars and researchers as contributors and author the final chapter themselves This collection is a vital resource for students and scholars of bioethics medicine and public health policy as well as for members of institutional review boards IRBs research administrators and policy makers

Pragmatism and the Search for Coherence in Neuroscience Jay Schulkin, 2015-07-28 We have known for over a thousand years that the brain underlies behavioral expression but effective scientific study of the brain is only very recent Two things converge in this book a great respect for neuroscience and its many variations and a sense of investigation and inquiry demythologized Think of it as foraging for coherence

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