



THE CYBERNETICS

# The Cybernetics Group

**Jean-Pierre Dupuy**



## **The Cybernetics Group:**

**The Cybernetics Group** Steve J. Heims,1991 This is the engaging story of a moment of transformation in the human sciences a detailed account of a remarkable group of people who met regularly from 1946 to 1953 to explore the possibility of using scientific ideas that had emerged in the war years cybernetics information theory computer theory as a basis for interdisciplinary alliances The Macy Conferences on Cybernetics as they came to be called included such luminaries as Norbert Wiener John von Neumann Margaret Mead Gregory Bateson Warren McCulloch Walter Pitts Kurt Lewin F S C Northrop Molly Harrower and Lawrence Kubie who thought and argued together about such topics as insanity vision circular causality language the brain as a digital machine and how to make wise decisions Heims who met and talked with many of the participants portrays them not only as thinkers but as human beings His account examines how the conduct and content of research are shaped by the society in which it occurs and how the spirit of the times in this case a mixture of postwar confidence and cold war paranoia affected the thinking of the cybernetics group He uses the meetings to explore the strong influence elite groups can have in establishing connections and agendas for research and provides a firsthand look at the emergence of paradigms that were to become central to the new fields of artificial intelligence and cognitive science In his joint biography of John von Neumann and Norbert Wiener Heims offered a challenging interpretation of the development of recent American science and technology Here in this group portrait of an important generation of American intellectuals Heims extends that interpretation to a broader canvas in the process paying special attention to the two iconoclastic figures Warren McCulloch and Gregory Bateson whose ideas on the nature of the mind brain and on holism are enjoying renewal today Steve J Heims once a research physicist has devoted his attention to the history of twentieth century science for the past two decades [Constructing a Social Science for Postwar America](#) Steve J. Heims,1993 Focusing on the Macy Foundation conferences a series of encounters that captured a moment of transformation in the human sciences *The Cybernetics Group* Steve J. Heims,1991 This is the engaging story of a moment of transformation in the human sciences a detailed account of a remarkable group of people who met regularly to explore the possibility of using scientific ideas that had emerged in the war years as a basis for interdisciplinary alliances *The Cybernetics Moment* Ronald R. Kline,2015-07-15 Choice Outstanding Academic Title Cybernetics the science of communication and control as it applies to machines and to humans originates from efforts during World War II to build automatic anti-aircraft systems Following the war this science extended beyond military needs to examine all systems that rely on information and feedback from the level of the cell to that of society In *The Cybernetics Moment* Ronald R Kline a senior historian of technology examines the intellectual and cultural history of cybernetics and information theory whose language of information feedback and control transformed the idiom of the sciences hastened the development of information technologies and laid the conceptual foundation for what we now call the Information Age Kline argues that for about twenty years after 1950 the growth of

cybernetics and information theory and ever more powerful computers produced a utopian information narrative an enthusiasm for information science that influenced natural scientists social scientists engineers humanists policymakers public intellectuals and journalists all of whom struggled to come to grips with new relationships between humans and intelligent machines Kline traces the relationship between the invention of computers and communication systems and the rise decline and transformation of cybernetics by analyzing the lives and work of such notables as Norbert Wiener Claude Shannon Warren McCulloch Margaret Mead Gregory Bateson and Herbert Simon Ultimately he reveals the crucial role played by the cybernetics moment when cybernetics and information theory were seen as universal sciences in setting the stage for our current preoccupation with information technologies Nowhere in the burgeoning secondary literature on cybernetics in the last two decades is there a concise history of cybernetics the science of communication and control that helped usher in the current information age in America Nowhere that is until now Readers have in *The Cybernetics Moment* the first authoritative history of American cybernetics Information Culture A n extremely interesting and stimulating history of the concepts of cybernetics This is a book for everyone to read relish and think about Choice As a whole the book presents a comprehensive in depth retrospective analysis of the contribution of the American scientific school to the making formation and development of cybernetics and information theory An unquestionable advantage of the book is the skillful use of numerous bibliographic sources by the author that reflect the scientific engineering and social significance of the questions being considered competition of ideas and developments and also interrelations between scientists Cybernetics and System Analysis Dr Kline is perhaps uniquely situated to take on so large and complicated a topic as cybernetics Readers unfamiliar with Wiener and his work are well advised to start with this well written and thorough book Those who are already familiar will still find much that is new and informative in the thorough research and reasoned interpretations IEEE History Center The most comprehensive intellectual history of cybernetics in Cold War America Journal of American History The book will be most valuable as historical background for the large number of disciplines that were involved in the cybernetics moment computer science communications engineering information theory and the social sciences of sociology and anthropology IEEE Technology and Society Magazine Ronald Kline s chronicle of cybernetics certainly does what an excellent history of science should do It takes you there to the golden age of a new exciting field You will almost smell that cigar Second Order Cybernetics Kline s *The Cybernetics Moment* tracks the rise and fall of the cybernetics movement in more detail than any historical account to date Los Angeles Review of Books

**The Cybernetics Moment** Ronald R. Kline, 2015-07-15 How did cybernetics and information theory arise and how did they come to dominate fields as diverse as engineering biology and the social sciences Winner of the CHOICE Outstanding Academic Title of the Choice ACRL Outstanding Academic Title Choice Cybernetics the science of communication and control as it applies to machines and to humans originates from efforts during World War II to build automatic anti-aircraft systems Following the war this science extended beyond military needs to

examine all systems that rely on information and feedback from the level of the cell to that of society In *The Cybernetics Moment* Ronald R Kline a senior historian of technology examines the intellectual and cultural history of cybernetics and information theory whose language of information feedback and control transformed the idiom of the sciences hastened the development of information technologies and laid the conceptual foundation for what we now call the Information Age Kline argues that for about twenty years after 1950 the growth of cybernetics and information theory and ever more powerful computers produced a utopian information narrative an enthusiasm for information science that influenced natural scientists social scientists engineers humanists policymakers public intellectuals and journalists all of whom struggled to come to grips with new relationships between humans and intelligent machines Kline traces the relationship between the invention of computers and communication systems and the rise decline and transformation of cybernetics by analyzing the lives and work of such notables as Norbert Wiener Claude Shannon Warren McCulloch Margaret Mead Gregory Bateson and Herbert Simon Ultimately he reveals the crucial role played by the cybernetics moment when cybernetics and information theory were seen as universal sciences in setting the stage for our current preoccupation with information technologies

Rhetoric and Ethics in the Cybernetic Age Jeff Pruchnic, 2013-08-15 It has become increasingly difficult to ignore the ways that the centrality of new media and technologies from the global networking of information systems and social media to new possibilities for altering human genetics seem to make obsolete our traditional ways of thinking about ethics and persuasive communication inherited from earlier humanist paradigms This book argues that rather than devoting our critical energies towards critiquing humanist touchstones we should instead examine the ways in which media and technologies have always worked as crucial cultural forces in shaping ethics and rhetoric Pruchnic combines this historical itinerary with critical interrogations of diverse cultural and technological sites the logic of video games and artificial intelligence the ethics of life extension in contemporary medicine the transition to computer automated trading in world stock markets the state of critical theory in the contemporary humanities along with innovative analyses of the works of such figures as the Greek Sophists Kenneth Burke Martin Heidegger Michel Foucault Friedrich Nietzsche and Gilles Deleuze This book argues that our best strategies for crafting persuasive communication and producing ethical relations between individuals will be those that creatively replicate and appropriate rather than resist the logics of dominant forms of media and technology

**Control** Seb Franklin, 2024-07-02 An examination of digitality not simply as a technical substrate but also as the logical basis for reshaped concepts of labor subjectivity and collectivity Is there a cultural logic of what we have come to call the information age Have the technologies and techniques centered on the computer provided not only tools but also the metaphors through which we now understand the social and economic formation of our world In *Control* Seb Franklin addresses the conditions of knowledge that make the concept of the information economy possible while at the same time obscuring its deleterious effects on material social spaces In so doing Franklin traces three intertwined threads the relationships among information

labor and social management that emerged in the nineteenth century the mid twentieth century diffusion of computational metaphors and the appearance of informatic principles in certain contemporary socioeconomic and cultural practices Drawing on critical theory media theory and the history of science Franklin names control as the episteme grounding late capitalism Beyond any specific device or set of technically mediated practices digitality functions within this episteme as the logical basis for reshaped concepts of labor subjectivity and collectivity as well as for the intensification of older modes of exclusion and dispossession In tracking the pervasiveness of this logical mode into the present Franklin locates the cultural traces of control across a diverse body of objects and practices from cybernetics to economic theory and management styles and from concepts of language and subjectivity to literary texts films and video games [In Athena's Camp](#) John Arquilla, David Ronfeldt, 1997-10-07 The information revolution which is as much an organizational as a technological revolution is transforming the nature of conflict across the spectrum from open warfare to terrorism crime and even radical social activism The era of massed field armies is passing because the new information and communications systems are increasing the lethality of quite small units that can call in deadly precise missile fire almost anywhere anytime In social conflicts the Internet and other media are greatly empowering individuals and small groups to influence the behavior of states Whether in military or social conflicts all protagonists will soon be developing new doctrines strategies and tactics for swarming their opponents with weapons or words as circumstances require Preparing for conflict in such a world will require shifting to new forms of organization particularly the versatile hardy all channel network This shift will prove difficult for states and professional militaries that remain bastions of hierarchy bound to resist institutional redesign They will make the shift as they realize that information and knowledge are becoming the key elements of power This implies among other things that Mars the old brute force god of war must give way to Athena the well armed goddess of wisdom Accepting Athena as the patroness of this information age represents a first step not only for preparing for future conflicts but also for preventing them **Panic Diaries** Jackie Orr, 2006-03-01 A cultural history and sociological critique of 20th century panic from the Cold War to contemporary psychiatry **On the Origins of Cognitive Science** Jean-Pierre Dupuy, 2009-04-17 An examination of the fundamental role cybernetics played in the birth of cognitive science and the light this sheds on current controversies The conceptual history of cognitive science remains for the most part unwritten In this groundbreaking book Jean Pierre Dupuy one of the principal architects of cognitive science in France provides an important chapter the legacy of cybernetics Contrary to popular belief Dupuy argues cybernetics represented not the anthropomorphization of the machine but the mechanization of the human The founding fathers of cybernetics some of the greatest minds of the twentieth century including John von Neumann Norbert Wiener Warren McCulloch and Walter Pitts intended to construct a materialist and mechanistic science of mental behavior that would make it possible at last to resolve the ancient philosophical problem of mind and matter The importance of cybernetics to cognitive science Dupuy argues lies not in its daring conception of the

human mind in terms of the functioning of a machine but in the way the strengths and weaknesses of the cybernetics approach can illuminate controversies that rage today between cognitivists and connectionists eliminative materialists and Wittgensteinians functionalists and anti reductionists Dupuy brings to life the intellectual excitement that attended the birth of cognitive science sixty years ago He separates the promise of cybernetic ideas from the disappointment that followed as cybernetics was rejected and consigned to intellectual oblivion The mechanization of the mind has reemerged today as an all encompassing paradigm in the convergence of nanotechnology biotechnology information technology and cognitive science The tensions contradictions paradoxes and confusions Dupuy discerns in cybernetics offer a cautionary tale for future developments in cognitive science [The Nature of the Machine and the Collapse of Cybernetics](#) Alcibiades

Malapi-Nelson,2017-07-03 This book is a philosophical exploration of the theoretical causes behind the collapse of classical cybernetics as well as the lesson that this episode can provide to current emergent technologies Alcibiades Malapi Nelson advances the idea that the cybernetic understanding of the nature of a machine entails ontological and epistemological consequences that created both material and theoretical conundrums However he proposes that given our current state of materials research scientific practices and research tools there might be a way for cybernetics to flourish this time The book starts with a historical and theoretical articulation of cybernetics in order to proceed with a philosophical explanation of its collapse emphasizing the work of Alan Turing Ross Ashby and John von Neumann Subsequently Malapi Nelson unveils the common metaphysical signature shared between cybernetics and emergent technologies identifying this signature as transhumanist in nature Finally avenues of research that may allow these disruptive technologies to circumvent the cybernetic fate are indicated It is proposed that emerging technologies ultimately entail an affirmation of humanity *The*

*Idea of the Brain* Matthew Cobb,2020-03-12 Shortlisted for the 2020 Baillie Gifford Prize A New Statesman Book of the Year This is the story of our quest to understand the most mysterious object in the universe the human brain Today we tend to picture it as a computer Earlier scientists thought about it in their own technological terms as a telephone switchboard or a clock or all manner of fantastic mechanical or hydraulic devices Could the right metaphor unlock the its deepest secrets once and for all Galloping through centuries of wild speculation and ingenious sometimes macabre anatomical investigations scientist and historian Matthew Cobb reveals how we came to our present state of knowledge Our latest theories allow us to create artificial memories in the brain of a mouse and to build AI programmes capable of extraordinary cognitive feats A complete understanding seems within our grasp But to make that final breakthrough we may need a radical new approach At every step of our quest Cobb shows that it was new ideas that brought illumination Where he asks might the next one come from What will it be **The Freudian Robot** Lydia H. Liu,2011-05-23 The identity and role of writing has evolved in the age of digital media But how did writing itself make digital media possible in the first place Lydia H Liu offers here the first rigorous study of the political history of digital writing and its fateful entanglement with the Freudian unconscious Liu s

innovative analysis brings the work of theorists and writers back into conversation with one another to document significant meetings of minds and disciplines She shows how the earlier avant garde literary experiments with alphabetical writing and the word association games of psychoanalysis contributed to the mathematical making of digital media Such intellectual convergence she argues completed the transformation of alphabetical writing into the postphonetic ideographic system of digital media which not only altered the threshold of sense and nonsense in communication processes but also compelled a new understanding of human machine interplay at the level of the unconscious Ranging across information theory cybernetics modernism literary theory neurotic machines and psychoanalysis The Freudian Robot rewrites the history of digital media and the literary theory of the twentieth century

**Lost in Cyurbia** James Harkin,2010-09-07 The early twentieth century saw the slow but steady exodus of the population from inner cities to the suburbs We are currently witnessing a similar transformation as our new century establishes itself but in an entirely different realm As new technologies proliferate personal computers the communication gadgetry of mobile devices and access to the internet our culture is participating in a mass electronic migration James Harkin christens this destination to Cyurbia the ether of online where we spend so much of our lives Once upon a time there were no text messaging no e mail and no social networking sites like Facebook Bebo Twitter and MySpace The introduction of these new forums for communication has radically transformed the way that we live and we can only guess what will come next Innovative and extremely timely *Lost in Cyurbia* describes the architecture of our digital life how it has developed over the past seventy years and how it will evolve in the future The narrative recounts how the theories of Norbert Weiner the inventor of cybernetics and Marshall McLuhan inspired the counterculture radicals in the sixties and seventies and traces how their pioneering idealistic and theoretical work laid the groundwork for a system whose central idea is bringing about direct communication between peers outside the reach of authority Harkin explores what it means to be in the loop and our obsession with instant access to information and how it is shared over networks and considers what has been lost and what has been gained Are we more connected than ever before or more isolated Have our thinking processes been forever altered Is the democratic nature of the net slowly being eroded by corporate interests Or as once hoped will the net enable the awakening of a new kind of global consciousness

*Architecture, Media, Archives* Ana Bonet Miró,2024-08-22 Over 60 years on from its inception the celebrated Fun Palace civic project developed in the 1960s by the radical theatre director Joan Littlewood and the architect Cedric Price continues to capture the architectural imagination Despite the building itself never being realized much of the previous analysis of the Fun Palace has been devoted to Price and his drawings The critical role that Littlewood played however remains largely unrecognized by architectural scholarship and a whole area of the project s cultural agenda remains overlooked *Architecture Media Archives* is the first serious study of the complex relations between Littlewood and Price reframing the Fun Palace as an extended media project and positioning Littlewood more clearly as co designer Drawing on extensive archival material the

book considers how due to a lack of institutional support the aims of the Fun Palace to transform the passive mass audiences of post war consumer society into active citizens through forms of self directed pleasure led and open exchange were realized through different sites of information throughout the 1960s From broadsheets pamphlets and journals to films and press news the book addresses the conditions of production circulation storage and reception of these sites and reveals how they not only recorded the transformation of the project but also fundamentally enhanced and informed its meaning in specific ways The book also raises important questions about the agency of the Fun Palace archive in shaping the reception of the project in the decades since its inception presenting its analysis through a novel Fun Palace Reception Index and Chart fundamentally altering our view of the project itself and transforming the way in which we understand the technological and cultural production of the 1960s

**Enduring Innocence** Keller Easterling, 2007-09-28 How outlaw spatial products resorts information technology campuses retail chains golf courses and ports act as cunning pawns in global politics In *Enduring Innocence* Keller Easterling tells the stories of outlaw spatial products resorts information technology campuses retail chains golf courses ports and other hybrid spaces that exist outside normal constituencies and jurisdictions in difficult political situations around the world These spaces familiar commercial formulas of retail business and trade aspire to be worlds unto themselves self reflexive and innocent of politics But as Easterling shows in reality these enclaves can become political pawns and objects of contention Jurisdictionally ambiguous they are imbued with myths desires and symbolic capital Their hilarious and dangerous masquerades often mix quite easily with the cunning of political platforms Easterling argues that the study of such real estate cocktails provides vivid evidence of the market's weakness resilience or violence *Enduring Innocence* collects six stories of spatial products and their political predicaments cruise ship tourism in North Korea high tech agricultural formations in Spain which have reignited labor wars and piracy in the Mediterranean hyperbolic forms of sovereignty in commercial and spiritual organizations shared by gurus and golf celebrities automated global ports microwave urbanism in South Asian IT enclaves and a global industry of building demolition that suggests urban warfare These regimes of nonnational sovereignty writes Easterling move around the world like weather fronts she focuses not on their blending their global connectivity but on their segregation and the cultural collisions that ensue *Enduring Innocence* resists the dream of one globally legible world found in many architectural discourses on globalization Instead Easterling's consideration of these segregated worlds provides new tools for practitioners sensitive to the political composition of urban landscapes

**Timing the Future Metropolis** Peter Ekman, 2024-11-15 *Timing the Future Metropolis* an intellectual history of planning urbanism design and social science explores the network of postwar institutions formed amid specters of urban crisis and renewal that set out to envision the future of the American city Peter Ekman focuses on one decisive node in the network the Joint Center for Urban Studies founded in 1959 by scholars at Harvard and MIT Through its sprawling programs of organized research its manifold connections to universities foundations publishers and policymakers and its years of

consultation on the planning of a new city in Venezuela Ciudad Guayana the Joint Center became preoccupied with the question of how to conceptualize the urban future as an object of knowledge Timing the Future Metropolis ultimately compels a broader reflection on temporality in urban planning rethinking how we might imagine cities yet to come and the consequences of deciding not to

**How Not to Network a Nation** Benjamin Peters, 2016-03-25 How despite thirty years of effort Soviet attempts to build a national computer network were undone by socialists who seemed to behave like capitalists Between 1959 and 1989 Soviet scientists and officials made numerous attempts to network their nation to construct a nationwide computer network None of these attempts succeeded and the enterprise had been abandoned by the time the Soviet Union fell apart Meanwhile ARPANET the American precursor to the Internet went online in 1969 Why did the Soviet network with top level scientists and patriotic incentives fail while the American network succeeded In *How Not to Network a Nation* Benjamin Peters reverses the usual cold war dualities and argues that the American ARPANET took shape thanks to well managed state subsidies and collaborative research environments and the Soviet network projects stumbled because of unregulated competition among self interested institutions bureaucrats and others The capitalists behaved like socialists while the socialists behaved like capitalists After examining the midcentury rise of cybernetics the science of self governing systems and the emergence in the Soviet Union of economic cybernetics Peters complicates this uneasy role reversal while chronicling the various Soviet attempts to build a unified information network Drawing on previously unknown archival and historical materials he focuses on the final and most ambitious of these projects the All State Automated System of Management OGAS and its principal promoter Viktor M Glushkov Peters describes the rise and fall of OGAS its theoretical and practical reach its vision of a national economy managed by network the bureaucratic obstacles it encountered and the institutional stalemate that killed it Finally he considers the implications of the Soviet experience for today's networked world

*Cognitive Informatics and Wisdom Development: Interdisciplinary Approaches* Targowski, Andrew, 2010-12-31 Since wisdom is the ultimate human virtue its application is important for humans and civilization *Cognitive Informatics and Wisdom Development Interdisciplinary Approaches* argues that wise civilization cannot function without wise people and vice versa that wise people cannot function without positive conditions for the development of wise civilization Using the cognitive informatics approach as a basis for the investigation of wisdom this book offers solutions on how to study and evaluate the state of wisdom in 21st century society and the requirements for wise civilization and its monitoring systems

*The Information Revolution and National Security* Stuart J.D. Schwartzstein, 1996-12-19

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