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Until the mid-1980s, AI researchers assumed that an intelligent system doing high-level reasoning was necessary for the coupling of perception and action. In this traditional model, cognition mediates between perception and plans of action. Realizing that this core AI, as it was known, was illusory, Rodney A. Brooks turned the field of AI on its head by introducing the behavior-based approach to robotics. The cornerstone of behavior-based robotics is the realization that the coupling of perception and action gives rise to all the power of intelligence and that cognition is only in the eye of an

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observer. Behavior-based robotics has been the basis of successful applications in entertainment, service industries, agriculture, mining, and the home. It has given rise to both autonomous mobile robots and more recent humanoid robots such as Brooks' Cog. This book represents Brooks' initial formulation of and contributions to the development of the behavior-based approach to robotics. It presents all of the key philosophical and technical ideas that put this "bottom-up" approach at the forefront of current research in not only AI but all of cognitive science.

This book constitutes the refereed proceedings of the 2nd International Joint Conference of the 10th Ibero-American Conference on Artificial Intelligence, IBERAMIA 2006, and the 18th Brazilian Artificial Intelligence Symposium, SBIA

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2006. The book presents 62 revised full papers together with 4 invited lectures. Topical sections include AI in education and intelligent tutoring systems, autonomous agents and multiagent systems, computer vision and pattern recognition, evolutionary computation and artificial life, and more.

Cybernetics is often thought of as a grim military or industrial science of control. But as Andrew Pickering reveals in this beguiling book, a much more lively and experimental strain of cybernetics can be traced from the 1940s to the present. *The Cybernetic Brain* explores a largely forgotten group of British thinkers, including Grey Walter, Ross Ashby, Gregory Bateson, R. D. Laing, Stafford Beer, and Gordon Pask, and their singular work in a dazzling array of fields. Psychiatry, engineering, management,

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politics, music, architecture, education, tantric yoga, the Beats, and the sixties counterculture all come into play as Pickering follows the history of cybernetics' impact on the world, from contemporary robotics and complexity theory to the Chilean economy under Salvador Allende. What underpins this fascinating history, Pickering contends, is a shared but unconventional vision of the world as ultimately unknowable, a place where genuine novelty is always emerging. And thus, Pickering avers, the history of cybernetics provides us with an imaginative model of open-ended experimentation in stark opposition to the modern urge to achieve domination over nature and each other.

Architecture and Adaptation discusses architectural projects that use computational technology to adapt to

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changing conditions and human needs. Topics include kinetic and transformable structures, digitally driven building parts, interactive installations, intelligent environments, early precedents and their historical context, socio-cultural aspects of adaptive architecture, the history and theory of artificial life, the theory of human-computer interaction, tangible computing, and the social studies of technology. Author Socrates Yiannoudes proposes tools and frameworks for researchers to evaluate examples and tendencies in adaptive architecture. Illustrated with more than 50 black and white images.

In 1950, Alan Turing, the British mathematician, cryptographer, and computer pioneer, looked to the future: now that the conceptual and technical parameters for electronic brains had been

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established, what kind of intelligence could be built? Should machine intelligence mimic the abstract thinking of a chess player or should it be more like the developing mind of a child? Should an intelligent agent only think, or should it also learn, feel, and grow? *Affect and Artificial Intelligence* is the first in-depth analysis of affect and intersubjectivity in the computational sciences. Elizabeth Wilson makes use of archival and unpublished material from the early years of AI (1945-70) until the present to show that early researchers were more engaged with questions of emotion than many commentators have assumed. She documents how affectivity was managed in the canonical works of Walter Pitts in the 1940s and Turing in the 1950s, in projects from the 1960s that injected artificial agents into psychotherapeutic encounters, in chess-playing machines

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from the 1940s to the present, and in the Kismet (sociable robotics) project at MIT in the 1990s.

The Routledge Companion to Philosophy of Psychology, Second Edition is an invaluable guide and major reference source to the key topics, problems, concepts and debates in philosophy of psychology and is the first companion of its kind. A team of renowned international contributors provide forty-eight chapters organised into six clear parts: Historical Background to Philosophy of Psychology Psychological Explanation Cognition and Representation The Biological Basis of Psychology Perceptual Experience Personhood. The Companion covers key topics such as the origins of experimental psychology; folk psychology; behaviorism and functionalism; philosophy, psychology and neuroscience; the

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language of thought, modularity, nativism and representational theories of mind; consciousness and the senses; dreams, emotion and temporality; personal identity; and the philosophy of psychopathology. For the second edition six new chapters have been added to address the following important topics: belief and representation in nonhuman animals; prediction error minimization; contemporary neuroscience; plant neurobiology; epistemic judgment; and group cognition. Essential reading for all students of philosophy of mind, science and psychology, *The Routledge Companion to Philosophy of Psychology* will also be of interest to anyone studying psychology and its related disciplines.

An introduction to the science and practice of autonomous robots that reviews over 300 current systems and examines the

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underlying technology. Autonomous robots are intelligent machines capable of performing tasks in the world by themselves, without explicit human control. Examples range from autonomous helicopters to Roomba, the robot vacuum cleaner. In this book, George Bekey offers an introduction to the science and practice of autonomous robots that can be used both in the classroom and as a reference for industry professionals. He surveys the hardware implementations of more than 300 current systems, reviews some of their application areas, and examines the underlying technology, including control, architectures, learning, manipulation, grasping, navigation, and mapping. Living systems can be considered the prototypes of autonomous systems, and Bekey explores the biological inspiration that forms the basis of many recent developments in robotics. He also

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discusses robot control issues and the design of control architectures. After an overview of the field that introduces some of its fundamental concepts, the book presents background material on hardware, control (from both biological and engineering perspectives), software architecture, and robot intelligence. It then examines a broad range of implementations and applications, including locomotion (wheeled, legged, flying, swimming, and crawling robots), manipulation (both arms and hands), localization, navigation, and mapping. The many case studies and specific applications include robots built for research, industry, and the military, among them underwater robotic vehicles, walking machines with four, six, and eight legs, and the famous humanoid robots Cog, Kismet, ASIMO, and QRIO. The book concludes with reflections on the future of

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robotics—the potential benefits as well as the possible dangers that may arise from large numbers of increasingly intelligent and autonomous robots.

Cognitive science is among the most fascinating intellectual achievements of the modern era. The quest to understand the mind is an ancient one. But modern science has offered new insights and techniques that have revolutionized this enquiry. Oxford University Press now presents a masterly history of the field, told by one of its most eminent practitioners. Psychology is the thematic heart of cognitive science, which aims to understand human (and animal) minds. But its core theoretical ideas are drawn from cybernetics and artificial intelligence, and many cognitive scientists try to build functioning models of how the mind works. In that sense, Margaret Boden

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suggests, its key insight is that mind is a (very special) machine. Because the mind has many different aspects, the field is highly interdisciplinary. It integrates psychology not only with cybernetics/AI, but also with neuroscience and clinical neurology; with the philosophy of mind, language, and logic; with linguistic work on grammar, semantics, and communication; with anthropological studies of cultures; and with biological (and A-Life) research on animal behaviour, evolution, and life itself. Each of these disciplines, in its own way, asks what the mind is, what it does, how it works, how it develops---and how it is even possible. Boden traces the key questions back to Descartes's revolutionary writings, and to the ideas of his followers--and his radical critics--through the eighteenth and nineteenth centuries. Her story shows how

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controversies in the development of experimental physiology, neurophysiology, psychology, evolutionary biology, embryology, and logic are still relevant today. Then she guides the reader through the complex interlinked paths along which the study of mind developed in the twentieth century. Cognitive science covers all mental phenomena: not just 'cognition' (knowledge), but also emotion, personality, psychopathology, social communication, religion, motor action, and consciousness. In each area, Boden introduces the key ideas and researchers and discusses those philosophical critics who see cognitive science as fundamentally misguided. And she sketches the waves of resistance and acceptance on the part of the media and general public, showing how these have affected the development of the field. No one else could tell this story as

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Boden can: she has been a member of the cognitive science community since the late-1950s, and has known many of its key figures personally. Her narrative is written in a lively, swift-moving style, enriched by the personal touch of someone who knows the story at first hand. Her history looks forward as well as back: besides asking how state-of-the-art research compares with the hopes of the early pioneers, she identifies the most promising current work. *Mind as Machine* will be a rich resource for anyone working on the mind, in any academic discipline, who wants to know how our understanding of mental capacities has advanced over the years.

The *Digital Hand*, Volume 2, is a historical survey of how computers and telecommunications have been deployed in over a dozen industries in the financial, telecommunications, media and

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entertainment sectors over the past half century. It is part of a sweeping three-volume description of how management in some forty industries embraced the computer and changed the American economy. Computers have fundamentally changed the nature of work in America. However it is difficult to grasp the full extent of these changes and their implications for the future of business. To begin the long process of understanding the effects of computing in American business, we need to know the history of how computers were first used, by whom and why. In this, the second volume of *The Digital Hand*, James W. Cortada combines detailed analysis with narrative history to provide a broad overview of computing's and telecommunications' role in over a dozen industries, ranging from Old Economy sectors like finance and publishing to New Economy sectors like

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digital photography and video games. He also devotes considerable attention to the rapidly changing media and entertainment industries which are now some of the most technologically advanced in the American economy. Beginning in 1950, when commercial applications of digital technology began to appear, Cortada examines the ways different industries adopted new technologies, as well as the ways their innovative applications influenced other industries and the US economy as a whole. He builds on the surveys presented in the first volume of the series, which examined sixteen manufacturing, process, transportation, wholesale and retail industries. In addition to this account, of computers' impact on industries, Cortada also demonstrates how industries themselves influenced the nature of digital technology. Managers, historians and others interested in the

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history of modern business will appreciate this historical analysis of digital technology's many roles and future possibilities in an wide array of industries. The Digital Hand provides a detailed picture of what the infrastructure of the Information Age really looks like and how we got there.

Philosophy Through Film offers a stimulating new way to explore the basic questions of philosophy. Each chapter uses a popular film to examine one such topic - from free will and skepticism to personal identity and artificial intelligence - in a approachable yet philosophically rigorous manner. A wide range of films are discussed including more recent releases like Being John Malkovich, Total Recall and Boys Don't Cry, and classics like Rashomon and Crimes and Misdemeanors, all readily available through major video

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rental chains. This unique and engaging introduction provides an exciting new way to learn about philosophy and connects complicated philosophical questions to the familiar settings of popular culture.

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