Philosophy 395 Computer Science 228 Symbolic Systems 210	**Reading List (Draft)**	Philosophy of AI Stanford University Winter Quarter, 1989–90
File path: Koyaanisqatsi : Philosophy of AI : Phai — Bibliography Copyright: © 1990 Brian Cantwell Smith Last edited Monday, January 22, 1990 — 1:30 p.m.		

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I.   Bibliographic categories

— Note: this is a rough-and-ready classification, specifically aimed at this course. Its goal is to provide an accessible route into the philosophy of AI literature for the newcomer.

A.   Overall project
 1.   The computational metaphor, strong/weak AI, cognitive modelling, etc.
 2.   Critiques (and replies)
B.   Surrounding intellectual territory
 1.   Theoretical background:
  a.   φ of science: reduction, supervenience, and emergent properties
  b.   φ of mind, Φ of ψ, and cognitivism: mentalism, functionalism, representationalism, critiques of behaviourism, etc.
  c.   φ of language: sense, reference, meaning, opacity, etc.
  d.   Relevant logic and mathematics
  e.   The "situated" school: logic, language, context, semantics
 2.   Other naturalistic approaches to intentionality
  a.   Biology (biological function)
  b.   Physics (entropy)
  c.   Philosophy (consciousness, external attribution, mathematics, counter-factual supporting correlation, etc.)
 3.   The role of computation in surrounding fields
C.   Computation
 1.   Theories of computation
  a.   Effective computability, recursive function theory, etc.
  b.   Formal symbol manipulation
  c.   Digital state machines
  d.   Information processing
  e.   Other (PSSH, analog information processing, partial disconnection, etc.)
 2.   Other relevant issues
  a.   Programming language semantics
  b.   Representation and semantics (data types, data bases, etc.)
D.   Artificial Intelligence
 1.   Internal fields
  a.   Reasoning and problem solving
  b.   Language

        c.   Sensory processing (perception, effection, vision, robotics)
        d.   "Knowledge" representation
   2.   General architectural proposals
        a.   Logico-deductive
        b.   Search and p.s.
        c.   Procedural
        d.   Connectionism and neurophysiological modelling
        e.   Embedded (non-conceptual) systems

E.   Specific issues
   1.   Context dependence (situated, embedded, social, …)
   2.   Physical embodiment
   3.   Representation (implicit, explicit, …)
   4.   Interpretation: (content ascription, semantic interpretation, levels of analysis)
   5.   The frame problem

II.   References by category

A.   Overall project
   1.   The computational metaphor, strong/weak AI, cognitive modelling, etc.

Anderson, Alan Ross (1964), *Minds and Machines*

Boden, Margaret A (1977), *Artificial Intelligence and Natural Man*

——— (1989), *Artificial Intelligence in Psychology: Interdisciplinary Essays*

——— (19??), Book of essays (#1)

Dennett, Dan (1971), "Intentional systems".

——— (1978), "Artificial Intelligence as Philosophy and as Psychology".

——— (1988), "Précis of *The Intentional Stance*" (with replies).

——— (1978), *Brainstorms: Philosophical Essays on Mind & Psychology*.

Dreyfus, Hubert L., "Introduction to *Husserl, Intentionality, and Cognitive Science*".

Goldstein, Ira, and Papert, Seymour (1977), "AI, language, and the study of knowledge".

Haugeland, John (1978), "The Nature and Plausibility of Cognitivism" (with replies).

——— (ed.) (1981): *Mind Design: Philosophy, Psychology, Artificial Intelligence*.

——— (1985), *Artificial Intelligence: The Very Idea*.

Jackendoff, Ray (1987), *Consciousness and the Computational Mind*.

Johnson-Laird, Philip N. (1983), Mental Models: *Towards a Cognitive Science of Language, Inference, and Consciousness*.

——— (1988), *The Computer and the Mind: An Introduction to Cognitive Science*.

Marr, David (1977), "Artificial intelligence — a personal view"

McCarthy, John, and Hayes, Patrick J. (1969), "Some philosophical problems from the standpoint of artificial intelligence".

Minsky, Marvin, *Society of mind*

Newell, Alan and Simon, Herb (1981), "Computer Science as Empirical Inquiry: Symbols and Search".

Newell, Alan (19??), "Artificial Intelligence and the Concept of Mind"

——— (19??), "Reasoning, problem solving, and decision processes: The problem space as a fundamental category".

——— (1982), "The Knowledge Level",

——— (forthcoming), *Unified Theories of Cognition*.

Posner, Michael I (ed) (1989), *Foundations of Cognitive Science*.

Putnam, Hilary (1960), "Minds and machines".

Pylyshyn, Zenon W.; & Demopoulos, William (eds) (1986): *Meaning and Cognitive Structure: Issues in the Computational Theory of Mind.*

Pylyshyn, Zenon (1981), "Complexity and the Study of Artificial and Human Intelligence".

———(1980), "Computation and Cognition: Issues in the foundation of cognitive science" (with replies).

——— (1989), "Computing in Cognitive Science".

——— (1984), *Computation and Cognition: Towards a Foundation for Cognitive Science*.

Sharkey, N. E. (ed) (1986): *Advances in Cognitive Scienc*.

Simon, Herbert A. (forthcoming), "The computer as a laboratory for epistemology"

——— (1969), *The Sciences of the Artificial*, Cambridge, Mass: The MIT Press (1969)

Smith, Brian Cantwell (19??), "The correspondence continuuum"

Stich, Stephen P. (1983), *From Folk Psychology to Cognitive Science: The Case Against Belief*.

Turing, Alan M. (1950), "Computing machinery aaand intelligence".

Webber, Bonnie Lynn; & Nilsson, Nils J. (eds) (1981): *Readings in Artificial Intelligence*.

2.   Critiques (and replies)

Born, Rainer (ed) (1987): *Artificial Intelligence: The Case Against.*

Dresher, B. Elan; & Hornstein, Norbert (1976), "On some Supposed Contributions of Artificial Intelligence to the Scientific Study of Language".

Dretske, Fred I. (19??), "Machines and the Mental".

Dreyfus, Hubert L. (1981), "From Micro-Worlds to Knowledge Representation: AI at an impasse".

——— (1972), *What Computer's Can't Do: The Limits of Artificial Intelligence* (revised edition), New York: Harper & Row (1972, 1979).
    —   See especially the introduction to the second edition, a minor revision of which is reprinted in Haugeland (1981), pp. 161–205.

Searle, John (1980), "Minds, Brains, and Programs" (with replies)

——— (19??), *Minds, Brains, and Science* .

Taylor, Charles (1985), "Cognitive Psychology".

Weizenbaum, Joseph (19??), *Computer Power and Human Reason*.

Winograd, Terry; & Flores, Fernando (1986): *Understanding Computers and Cognition: A New Foundation for Design*

B. Surrounding intellectual territory
   1. Theoretical background:
      a.   φ of science: reduction, supervenience, and emergent properties

Boyd, Richard (1979), "Metaphor and Theory Change: What is 'metaphor' a Metaphor for?".

Boyd, Richard (1980), "Materialism without reductionism: what physicalism does not entail".

Fodor, Jerry A. (1974), "Special Sciences, or the disunity of science as a working hypothesis".

Haugeland, John (1982), "Weak Supervenience".

Kim, Jaegwon (1989) "The Myth of Non-Reductive Materialism".

Putnam, Hilary (1973), "Reductionism and the nature of psychology".

Haugeland, John (19??), "The Intentionality All-Stars", …

      b.   φ of mind, Φ of ψ, and cognitivism: mentalism, functionalism, representationalism, critiques of behaviourism, etc.

Biro, J. I.; & Shahan, Robert W. (eds) (1982): *Mind, Brain, and Function: Essays in the Philosophy of Mind*.

Block, Ned (ed) (1980&81): *Readings in Philosophy of Psychology*, Volumes I&II.

Chomsky, Noam (1975), "On cognitive capacity".

——— (1980), "Rules and representations".

Churchland, Paul M. (1986b), *Matter and Consciousness: A Contemporary Introduction to the Philosophy of Mind*.

Davidson, Donald (1973), "The material mind".

Dennett, Dan (19??), *Beyond Belief*

Dreyfus, Hubert L. (ed.) (1982), with Harrison Hall, *Husserl, Intentionality, and Cognitive Science*.

Field, Hartry (1978), "Mental Representation".

Fodor, Jerry A. (1977), *The Language of Thought*.

——— (1980), "Methodological Solipsism Considered as a Research Strategy in Cognitive Psychology".

——— (1981), *RePresentations: Philosophical Essays on the Foundations of Cognitive Science*.

——— (1984) "Semantics, Wisconsin style"

——— (1985), "Fodor's Guide to Mental Representation: The Intelligent Auntie's *Vade-Mecum*".

——— (1986), "Why paramecia don't have mental representations".

——— (1987a), *Psychosemantics: The Problem of Meaning in the Philosophy of Mind*

——— (1987b), "Why there still has to be a language of thought".

——— (19??), "The Mind-Body Problem".

Hook, Sidney (ed.), *Dimensions of mind: a symposium*, New York: New York University Press (1960).

McGinn, Colin, (19??) …

Neisser, Ulric, "Direct Perception and Recognition as Distinct Perceptual Systems", invited address presented to the 1989 Cognitive Science Society meeting in Ann Arbor.

Putnam, Hilary (1975), "The meaning of 'meaning' ".

——— (19??), "The nature of mental states"

——— (1987), "Computational Psychology and Interpretation Theory".

——— (1988), *Representation and Reality*.

Searle, John (1982), "What is an Intentional State?".

——— (19??), *Intentionality*, …

——— (forthcoming), *What's Wrong with the Philosophy of Mind*

Silvers, Stuart (ed) (1989): *Rerepresentation: readings in the philosophy of mental representation*.

c.   φ of language: sense, reference, meaning, opacity, etc.

Eco, Umberto; Santambrogio, Macro; & Violi, Patrizia (eds) (1988): *Meaning and Mental Representations*.

Frege, Gottlob (1960), "On sense and reference".

d.   Relevant logic and mathematics

Barwise, Jon; and Etchemendy, John (1989), "Model-theoretic semantics".

Etchmendy, John (19??), "Models, Semantics, and Logical Truth", in …

Salmon, Wesley C. (1973), *Logic*.

Webb, Judson C. (1980), *Mechanism, Mentalism, and Metamathematics: an Essay on Finitism*.

e.   The "situated" school: logic, language, context, semantics

Barwise, Jon (1988), "On the circumstantial relation between meaning and content".

——— (1989): *The Situation in Logic*.

Barwise, Jon, & Perry, John (1983): *Situations and Attitudes.*

Barwise, Jon, & Perry, John (1985), "Shifting Situations and Shaken Attitudes".

Smith, Brian Cantwell (19??), "The semantics of clocks"

2. Other naturalistic approaches to intentionality
    a. Biology (biological function)

    Cariani, Peter (1989), *On the Design of Devices with Emergent Semantic Functions.*

    Churchland, Patricia (1986), *Neurophilosophy: Towards a Unified Science of the Mind/Brain.*

    Maturana, Humberto R. (1987), "The Biological Foundations of Self-Consciousness and the Physical Domain of Existence".

    Rosen, Robert (19??), *Anticipatory Systems*, …

    b. Physics (entropy)
    c. Philosophy (consciousness, external attribution, mathematics, counter-factual supporting correlation, etc.)

    Dretske, Fred I. (1981), *Knowledge and the Flow of Information.*

    ——— (1983), "Précis of *Knowledge and the Flow of Information*" (with replies).

    ——— (forthcoming), "Putting information to work".

    Rosen, Robert (1987), "On the scope of syntactics in mathematics and science: the machine metaphor".

3. The role of computation in surrounding fields

    Casti, John L.; & Karlqvist, Anders (eds) (1987): *Real Brains, Artificial Minds*.

C. Computation
    1. Theories of computation
        a. Effective computability, recursive function theory, etc.

        Hodges, Andrew (1983), *Alan Turing: The Enigma.*

        Minsky, Marvin (19??), *Finite and Infinite Machines*

        b. Formal symbol manipulation

        c. Digital state machines

        Goodman, Nelson (19??), chapter ?? of *Languages of Art*

        Haugeland, John (1981), "Analog and Analog".

        ——— (19??), chapter ?? of *AI: The Very Idea*

Lewis, David (1971), "Analog and Digital".

d.   Information processing
e.   Other (PSSH, analog information processing, partial disconnection, etc.)

Mead, Carver (1989), *Analog VLSI and Neural Systems.*

Newell, Alan (1980), "Physical Symbols Systems"

2.   Other relevant issues
a.   Programming language semantics
b.   Representation and semantics (data types, data bases, etc.)

Smith, Brian Cantwell (19??), "Linguistic and computational semantics"

D.   Artificial Intelligence
1.   Internal fields
a.   Reasoning and problem solving
b.   Language
c.   Sensory processing (perception, effection, vision, robotics)

Marr, David (1982), *Vision.*

Richards, Whitman (19??), *Natural Computation*

Ullman, Shimon (1980), "Against direct perception".

——— (19??), <structure from motion>

d.   "Knowledge" representation

Brachman, Ronald (1979), "On the epistemological status of semantic networks".

Hayes, Patrick J. (1985), "The Second Naive Physics Manifesto"

Israel, David J., & Brachman, Ronald J. (1981), "Distinctions and Confusions: a Catalogue Raisonné"

Minsky, Marvin (1981), "A framework for representing knowledge".

Woods, William (1975), "What's in a Link: Foundations for Semantic Networks".

Brachman, Ronald J.; & Levesque, Hector J. (eds) (1985): *Readings in Knowledge Representation.*

2.   General architectural proposals
a.   Logico-deductive

Hayes, Patrick J. (19??), "In Defense of Logic"

Israel, David J. (1980) "What's Wrong with Non-Monotonic Logic?".

McDermott, Drew (19??), Anti-logicist paper … in *Computational Intelligence*

Moore, Robert (19??), "The Role of Logic in Knowledge Representation and Commonsense Reasoning"

b.   Search and p.s.

Simon, Herbert A. (1983), "Search and Reasoning in Problem Solving".

c.   Procedural

Woods, William (1981), "Procedural Semantics as a theory of meaning"

——— (1986), "Problems in Procedural Semantics".

d.   Connectionism and neurophysiological modelling

Churchland, Paul M (1986a), "Some reductive strategies in cognitive neurobiology".

Clark, Andy (1987), "Connectionism and Cognitive Science".

——— (19??), <book>

Conrad, Michael (1987), "Molecular computer design: a synthetic approach to brain theory".

Cussins, Adrian (forthcoming), "The connectionist construction of concepts".

Fodor, Jerry A., and Pylyshyn, Zenon W. (1988), "Connections and cognitive architecture: a critical analysis".

Pinker, Steven; & Mehler, Jacques (eds) (1988): *Connections and Symbols.*

Rumelhart, David E; McClelland, James L.; & the PDP Research Group (eds) (1986): *Parallel Distributed Processing: Explorations in the Microstructures of Cognition* (Volume 1: Foundations).

Rumelhart, David E. and McClelland, James L. (1986), "PDP models and general issues in cognitive science".

Rumelhart, David E., McClelland, James L., and Hinton, Geoffrey E. (1986), "A general framework for parallel distributed processing".

Smolenksy, Paul (1986a), "Information processing in dynamical systems: foundations of harmony theory".

——— (1986b), "Formal modeling of sybsymbolic processes: an introduction to harmony theory".

——— (1988), "On the proper treatment of connectionism".

e.   Embedded (non-conceptual) systems

Agre & Chapman

Brooks, Rodney <…>

Rosenschein, Stanley, <something on situated automata>

E.   Specific issues
  1.   Context dependence (situated, embedded, social, …)
  2.   Physical embodiment
  3.   Representation (implicit, explicit, …)
  4.   Interpretation: (content ascription, semantic interpretation, levels of analysis)
  5.   The frame problem

> Fodor, Jerry A. (19??), " … and the Music of the Intellectual Spheres"

F.   Other (as yet uncategorized)

—   Belnap, Nuel, "How a Computer Should Think", … [[check out]]

—   Resnikov, Howard, *The Illusion of Reality*, … : Springer Verlag (1988).

—   Nelson, R. J., *The Logic of Mind* (Second Revised Edition), Dordrecht, Holland: Reidel (1988). [[Niklas will acquire]]

III. Full References

category   reference

* indicates an anthology

D.2.e	Agre & Chapman <to be included>
*A.1	Anderson, Alan Ross (ed): *Minds and Machines*, Englewood Cliffs, N.J.: Prentice-Hall (1964).
B.1.e	Barwise, Jon, "On the circumstantial relation between meaning and content", in Eco, Santambrogio, & Violi (1988), pp. 23–39.
B.1.e	Barwise, Jon: *The Situation in Logic*, CSLI Lecture Notes 17, Chicago: University of Chicago Press (1989).
B.1.d	Barwise, Jon; and Etchemendy, John, "Model-theoretic semantics", chapter 6 of Posner (1989), pp. 207–243.
B.1.e	Barwise, Jon, & Perry, John: *Situations and Attitudes*, Cambridge, Mass.: The MIT Press/a Bradford Book (1983).
B.1.e	Barwise, Jon, & Perry, John, "Shifting Situations and Shaken Attitudes", *Linguistics & Philosophy* **8**:1 (February 1985), Special Issue on Situations and Attitudes, pp. 105–161.
	Belnap, Nuel, "How a Computer Should Think" <check reference>
*B.1.b	Biro, J. I.; & Shahan, Robert W. (eds): *Mind, Brain, and Function: Essays in the Philosophy of Mind*, Norman, Oklahoma: Univeristy of Oklahoma Press (1982).
*B.1.b	Block, Ned (ed): *Readings in Philosophy of Psychology*, *Volume I*, Cambridge, Mass: Harvard University Press (1980)
*B.1.b	Block, Ned (ed): *Readings in Philosophy of Psychology*, *Volume II*, Cambridge, Mass: Harvard University Press (1981)
A.1	Boden, Margaret A., *Artificial Intelligence and Natural Man*, New York: Basic Books (1977). Second edition (expanded), Cambridge, Mass.: The MIT Press/a Bradford Book (1987).
*A.1	Boden, Margaret A., *Minds and Mechanism: Philosophical, Psychological, and Computational Models*, Ithaca, N.Y.: Cornell University Press (1981).
*A.1	Boden, Margaret A., *Artificial Intelligence in Psychology: Interdisciplinary Essays*, Cambridge, Mass: The MIT Press/a Bradford Book (1989).
*A.2	Born, Rainer (ed): *Artificial Intelligence: The Case Against*, New York: San Martin's Press (1987).
B.1.a	Boyd, Richard, "Metaphor and Theory Change: What is 'metaphor' a Metaphor for?", in Ortoni, Andrew (ed): *Metaphor and Thought*, Cambridge, England: Cambridge University Press (1979), pp. 356–408.
B.1.a	Boyd, Richard, "Materialism without reductionism: what physicalism does not entail", in Block (1980), pp. 67–106.
D.1.d	Brachman, Ronald, "On the epistemological status of semantic networks", in N. V. Findler (ed.), *Associate networks: representation and use of knowledge by computers*, New York: Academic Press (1979). pp 3–50. Reprinted in Brachman & Levesque (1985), pp. 191–215.

*D.1.d   Brachman, Ronald J.; & Levesque, Hector J. (eds): *Readings in Knowledge Representation*, Los Altos, California: Morgan Kaufmann Publishers, Inc. (1985).

D.2.e   Brooks, Rodney <to be included>

B.2.a   Cariani, Peter, *On the Design of Devices with Emergent Semantic Functions*, Doctoral Dissertation in the Systems Science Department of the State University of New York at Binghamton (1989).

*B.3   Casti, John L.; & Karlqvist, Anders (eds): *Real Brains, Artificial Minds*, New York: North-Holland (1987).

B.1.c   Chomsky, Noam, "A Review of B.F.Skinner's *Verbal Bahavior*", *Language* **35**:1 (1959), pp. 26–58; reprinted in J. Fodor and Katz, *The Structure of Language*, Englewood Cliffs, N.J.: Prentice-Hall (1964).

B.1.b   Chomsky, Noam, "On cognitive capacity", from N. Chomsky, *Reflections on Language*, New York: Pantheon Press (1975), chapter 1. Reprinted in Block (1981), pp. 305–323.

B.1.b   Chomsky, Noam, "Rules and representations" (with replies), *The Behavioral and Brain Sciences*, **3**:1 (March 1980), pp. 1–61.

B.2.a   Churchland, Patricia, *Neurophilosophy: Towards a Unified Science of the Mind/Brain*, Cambridge, Mass.: The MIT Press/a Bradford Book (1986).
          —   See especially chapter 9 for a critique of "classical" cognitive science.

D.2.d   Churchland, Paul M, "Some reductive strategies in cognitive neurobiology", *Mind* **95**:379 (July 1986a); reprinted in Silvers (1989), pp. 223–253.

B.1.b   Churchland, Paul M. *Matter and Consciousness: A Contemporary Introduction to the Philosophy of Mind*, Cambridge, Mass.: The MIT Press/a Bradford Book (1986b).

D.2.d   Clark, Andy, "Connectionism and Cognitive Science", in Proceedings of the 1987 Conference of the Artificial Intelligence Society of Britain (AISB). … [[check for reprint in Advances in AI]]

D.2.d   Clark, Andy, <book>

D.2.d   Conrad, Michael, "Molecular computer design: a synthetic approach to brain theory", in Casti & Karlqvist (1987), pp. 197–226.

D.2.d   Cussins, Adrian, "The connectionist construction of concepts", to appear in Margaret Body (ed.), *The Philosophy of Artificial Intelligence* , Oxford: Oxford University Press (1990, to appear).

B.1.b   Davidson, Donald, "The material mind", *Logic, Methodology and Philosophy of Science* **IV**, Pat Suppes (ed), Amsterdam: North-Holland (1973). Reprinted in Haugeland (1981), pp. 339–354.

A.1   Dennett, Dan, "Intentional systems", *The Journal of Philosophy* **68** (1971), pp. 87–106. Reprinted in Haugeland (1981), pp. 220–242.

A.1   Dennett, Dan, "Artificial Intelligence as Philosophy and as Psychology", in Dennett (1978), pp. 109–126.

*A.1   Dennett, Dan, *Brainstorms: Philosophical Essays on Mind & Psychology*, Cambridge, Mass: The MIT Press/a Bradford Book (1978).

B.1.b   Dennett, Dan, *Elbow Room: Varieties of Free Will Worth Wanting*, Cambridge, Mass.: The MIT Press / a Bradford Book (1984).

A.1   Dennett, Dan, "Précis of *The Intentional Stance*" (with replies), *The Behavioral and Brain Sciences*, **11**(1988), pp. 495–546.

A.2   Dresher, B. Elan; & Hornstein, Norbert, "On some Supposed Contributions of Artificial Intelligence to the Scientific Study of Language", *Cognition* **4** (1976) pp. 321–398. Reply by Winograd, Terry in *Cognition* **5** (1977).

B.2.c   Dretske, Fred I., *Knowledge and the Flow of Information*, Cambridge, Mass.: The MIT Press/a Bradford Book (1981).

B.2.c   Dretske, Fred I., "Précis of *Knowledge and the Flow of Information*" (with replies), *The Behavioral and Brain Sciences*, **6** (1983), pp. 55–91.

A.2   Dretske, Fred I., "Machines and the Mental", Presidential Address to the 83rd Annual Meeting of the Western Division of the American Philosophical Association, *APA Proceedings*, Chicago (1985), pp. 23–33.

B.2.c   Dretske, Fred I., "Putting information to work", in Philip Hanson (ed.) *Vancouver Studies in Cognitive Science*, **I**, Vancouver: University of British Columbia Press (1990, to appear).

A.2   Dreyfus, Hubert L., *What Computer's Can't Do: The Limits of Artificial Intelligence* (revised edition), New York: Harper & Row (1972, 1979).
           —   See especially the introduction to the second edition, a minor revision of which is reprinted in Haugeland (1981), pp. 161–205.

A.2   Dreyfus, Hubert L., "From Micro-Worlds to Knowledge Representation: AI at an impasse", (a minor revision of the introduction to the second edition of Dreyfus (1979)), in Haugeland (1981), pp. 161–205.

B.1.b   Dreyfus, Hubert L. (ed.), with Harrison Hall, *Husserl, Intentionality, and Cognitive Science*, Cambridge, Mass.: The MIT Press/a Bradford Book (1982).

A.1   Dreyfus, Hubert L., "Introduction to *Husserl, Intentionality, and Cognitive Science*", q.v.

*B.1.c, *A.   Eco, Umberto; Santambrogio, Macro; & Violi, Patrizia (eds): *Meaning and Mental Representations*, Bloomington, Indiana: Indiana University Press (1988).
   1

B.1.d   Etchmendy, John, "Models, Semantics, and Logical Truth", in <get reference>

B.1.b   Field, Hartry, "Mental Representation", *Erkenntniss* **13** (1978) pp. 9–61.

B.1.a   Fodor, Jerry A., "Special Sciences, or the disunity of science as a working hypothesis", *Synthese* **28** (1974), pp. 97–115. Reprinted in Fodor (1977), pp. 9–25, and in Block (1980), pp. 120–133.

B.1.b   Fodor, Jerry A., *The Language of Thought*, Cambridge, Mass: Harvard University Press (1977).

B.1.b   Fodor, Jerry A., "Methodological Solipsism Considered as a Research Strategy in Cognitive Psychology" (with replies), *The Behavioral and Brain Sciences*, **3**:1 (March 1980), pp. 63–109. Reprinted in Haugeland (1981), pp. 307–338, and in Dreyfus (1982), pp. 277–303.

*B.1.b   Fodor, Jerry A., *RePresentations: Philosophical Essays on the Foundations of Cognitive Science*, Cambridge, Mass: The MIT Press/a Bradford Book (1981).

B.1.b   Fodor, Jerry A. "Semantics, Wisconsin style", *Synthese* **59**:3 (June 1984); reprinted in Silvers (1989), pp. 1–18.

B.1.b   Fodor, Jerry A., "Fodor's Guide to Mental Representation: The Intelligent Auntie's *Vade-Mecum*", *Mind* (1985), pp. 76–100.

B.1.b Fodor, Jerry A., "Why paramecia don't have mental representations", *MidWest Studies in Philosophy, X* (1986), pp. 3–23.

E.5 Fodor, Jerry A. (19??), " … and the Music of the Intellectual Spheres" <on the frame problem; get reference>

B.1.b Fodor, Jerry A., *Psychosemantics: The Problem of Meaning in the Philosophy of Mind*, Cambridge, Mass: The MIT Press/a Bradford Book (1987).
—   1st chapter for <language of thought>;

B.1.b Fodor, Jerry A., "Why there still has to be a language of thought", appendix to Fodor (1987).

B.1.b Fodor, Jerry A., "The Mind-Body Problem", *Scientific American* **244**:1 (19??), pp. 114–123.

D.2.d Fodor, Jerry A., and Pylyshyn, Zenon W., "Connections and cognitive architecture: a critical analysis", in Pinker & Mehler (1988), pp. 3–71.

B.1.c Frege, Gottlob, "On sense and reference", in Geach & Black (eds.), *The philosophical writings of Gottlob Frege*, Oxford: Basil Blackwell (1960).

A.1 Goldstein, Ira, and Papert, Seymour, "AI, language, and the study of knowledge", *Cognitive Science* **1** (1977)

A.1 Haugeland, John, "The Nature and Plausibility of Cognitivism" (with replies), *The Behavioral and Brain Sciences*, **1** (1978), pp. 215–260. Reprinted in Haugeland (1981), pp. 243–281.

B.1.a–d Haugeland, John, "The Intentionality All-Stars", <ms. form; has it appeared in print?>

A.1 Haugeland, John (ed): *Mind Design: Philosophy, Psychology, Artificial Intelligence*, Cambridge, Mass.: The MIT Press/a Bradford Book (1981).

C.1.c Haugeland, John, "Analog and Analog", *Philosophical Topics* (Spring 1981); reprinted in Biro & Shahan (1982), pp. 213–225.

B.1.a Haugeland, John, "Weak Supervenience", *American Philosophical Quarterly* **19**:1 (January 1982), pp. 93–103.

A.1 Haugeland, John, *Artificial Intelligence: The Very Idea*, Cambridge, Mass: The MIT Press/a Bradford Book (1985).

D.2.a Hayes, Patrick J., "In Defense of Logic", IJCAI-77, MIT.

D.1.d Hayes, Patrick J., "The Second Naive Physics Manifesto", in J. R. Hobbs and R. C. Moore, *Formal Theories of the Commonsense World*, Norwood, N.J.: Ablex Publishing Corp. (1985), pp. 1–36. Reprinted in Brachman & Levesque (1985), pp. 468–485.

C.1.a Hodges, Andrew, *Alan Turing: The Enigma*, New York: Simon & Schuster (1983).

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