

## Subject Index

*Note:* For ease of reference, individual forms are listed under general headings where possible. For example:

- then,      Aphasia (general)
- Aphasia, auditory
- Aphasia, bilateral tactile
- Aphasia, Broca's
- Aphasia, conduction, etc.
- Abstract letter identities, 131
- Acalculia, 269–73
- Achromatopsia, 184
- Actions, willed, 328
- Additive factors method, 19n
- Agnosia, 3, 183–200 (*see also* Agnosia, apperceptive; Agnosia, associative; Agnosia, spatial; Gerstmann syndrome; Object recognition; Prosopagnosia; Pseudoagnosia; Simultanagnosia); and cascade models, 260; distinction between apperceptive and associative, 187–93; semantic impairments in, 275–6
- Agnosia, apperceptive, 9, 13–4, 187–9; explanation of, 188–9; localisation of, 188–9, 192
- Agnosia, associative, 9, 11n, 13–4, 187–9, 302–3; explanation of, 188–9; localisation of, 188–9, 192, 199; semantic processes in, 198–200
- Agnosia, spatial 316
- Agrammatism, 10, 180–2 (*see also* Aphasia, Broca's); artefacts in research on, 229; and Broca's aphasia, 172–4, 177–8; and cascade models, 260; and reversible sentences, 276–7; and semantic memory, 304–5
- Agraphia, 15–6, 130–57 (*See also* Agraphia, lexical; Agraphia, neglect; Agraphia, phonological; Agraphia, semantic; Spelling; Writing); and aphasia, 130; and apraxia, 130; central and linguistic, 131; central vs. peripheral classification explained, 131–2; classifications, justification of, 131–2; deep dysgraphia, 138–42; distinction between peripheral and central, 130–1; error patterns in normals, 146–8; graphemic buffer, 16, 145–52; graphemic buffer deficit, 151; graphemic motor patterns, selection of, 152–4; graphemic output lexicon, 132; inner screen transcribing, 156–7; spelling-to-sound correspondences, 131–2; two route model, 136f writing, model of, 148
- Agraphia, deep, 138–42; and semantic representation of words, 141
- Agraphia, lexical, 6, 16, 132–4, 138; comprehension in, 133; example of, 132–3; and phonological alexia, 159; word length effects in, 155; word and non-word writing, 133f
- Agraphia, neglect, 324–6
- Agraphia, phonological, 16, 324–6; contrasted with lexical agraphia, 134–6; graphemic selection in, 151; lexical analogy theory, 137; phonological writing route, capacity of, 142–5; problems with theories, 156–7; and word frequency, 135; word length effects, 325; word and non-word effects, 134f
- Agraphia, semantic, 138–44; separability of semantic processes in, 144; word effects in, 143–4
- Akinesia, and the frontal lobes, 336
- Alexia, *see* Dyslexias
- Allograph, 146–7
- Alzheimer's Disease, 274, 354
- Amnesia (*see also* Episodic memory; Frontal lobe amnesia; Memory; Semantic memory disorder; Short-term memory): aetiology, 354; anterior communicating artery rupture, amnesia after, 375–6; anterograde amnesia, 367–8; autobiographical memory, 366; Brown–Peterson procedure, 27–8 (*see also* Brown–Peterson procedure); completion/priming, 358–61; declarative memory, 358; delimiting patient criteria, 354–5; disconnection hypothesis of, 369, 372; E-MOP

446 *Subject Index*Amnesia (*cont.*)

theory, 370–3; encoding deficit theory, 27–8; episodic memory, *see* Episodic memory; famous faces test, 362; and forced choice recognition, 25–6, 30, 238–9; forgetting rate of, 355; forms of following differing aetiology, 363–4; free recall in, 48; frontal lobe amnesia, contrasts with classical amnesia, 378–9; habit and memory, 358; history of research, 353; localisation of, 355, 369–70; logical memory (subtest of WMS), 356; and loss of inter-unit associations, 368–9; mediational memory system, 369–70; and motor skills learning, 358; new memories, acquisition of, 367–8; Norman–Bobrow theory, 373–74; preservation of knowledge in, 356; priming effects, 358–61, 368, 379; procedural memory, 358; recognition vs. completion, 359–60; recognition vs. recall, 355; recollection/reflection, disorders of, 370; and repetition ability, 48–50; retention of old memories, 361–7; retrograde amnesia, 355, 361–7, 379–80; and Robinson technique, 365–6, 376; semantic memory, *see* Semantic memory disorder; and single-case design, 224–5; spared recognition theory, 355; and supra-span, 48–9; temporal gradients in, 361–5, 379–80; two types of, 355, 362–3; verbal material, retention of, 358–9; weak trace argument, 359

Anomia, 260–2, 263n; cascade model, 262; and category specificity, 304; and lexical-semantic to speech output disruption, 261–2; localisation, 280

Anosagnosia, 396–401 (*see also* Consciousness; Neglect); localisation of, 398; loss of expectation of function, 397; and perceptual illusions, 400; and Supervisory Attentional System, 400; unconscious inferences vs. intact perception, 400

Aphasia, 158–82 (*see also* Agrammatism; Aphasia, auditory; Aphasia, bilateral tactile; Aphasia, Broca's; Aphasia, conduction; Aphasia, jargon; Aphasia, transcortical motor; Aphasia, transcortical sensory; Aphasia, Wernicke's; Boston aphasia battery; Diagram-makers; Naming; Optic aphasia; Phonetic disintegration syndrome); central, 6, 50–1; and comprehension, 246f; fluent/non-fluent division, 274n; Freud's theories, 245–7; localisation of function, 174–5; modality-specific, 291–7; modality-specificity and non-semantic naming route, 296; semantic impairments in, 274n; and short-term memory, 43–4; and the Token Test, 181; types, differentiation of, 179f; types, research problems in, 4

Aphasia, auditory, 292

Aphasia, bilateral tactile, 292–3

Aphasia, Broca's, 7, 10, 34, 175–82 (*see also*

Agrammatism); comprehension in, 176–7; and deep dyslexia, 102

Aphasia, conduction, 7, 11, 34, 138, 164–9; and agraphia, 140; auditory word perception in, 168; and comprehension, 61–3; dyslexia, analogy with, 164–5; fractionation of, 59; localisation of, 167; normals, comparison with, 169–71; phonemic-ordering errors in, 140n; and short-term memory, 50–4, 57–9; and tapping sequence repetition, 56; and visual word-form system, 165; WAIS profile of, 167–8; word imageability effects, 167; word reproduction in, 168

Aphasia, jargon, 230

Aphasia, transcortical motor, 7, 11

Aphasia, transcortical sensory, 6–7, 11

Aphasia, Wernicke's, 7, 175–7, 261; access difficulties in, 279–80; and agraphia, 140; semantic priming effect in, 279

Apperceptive agnosia, *see* Agnosia, apperceptive

Apraxia: and the frontal lobes, 339n; localisation of, 339n

Arithmetical abilities, *see* Acalculia

Arithmetic subtest (of WAIS), 272; performance of an acalculic, 273

Artefacts, 231–41; in agrammatism research, 229–30; criteria for avoiding, 231–2; and dissociations, 265; individual difference, 238–41; resource, 272n, 293; task demand, 228–32

Articulatory store, and visual information, 59–60

Artificial intelligence (and neuropsychology), 23; and modularity, 270n; and planning programs, 334, 346–7; a program that learns from mistakes, 351

Associated transition network, 63

Associationist approach, 246–7

Associative agnosia, *see* Agnosia, associative

Attention, 307–52, 389 (*See also* Frontal lobes; Neglect; Supervisory Attentional System); attentional control, levels of, 319–20; attentional control: mechanisms, 327–52; attentional control: specialised systems, 327; centralised control, 309; controlled processing, 309; divided task performance, 319; and frontal lobes, 343–5; limited capacity model, 309, 318; localisation of, 319; localisation of visual control subsystems, 311; and neglect dyslexia, 320–3; processing capacity, 309; and spatial orienting, 317–8; visual attention processes, 307–27; visual attention processes in agraphia, 130, 151

Attentional control subsystem, visual, 310–11, 313–14, 318–20

Attentional dyslexia, *see* Dyslexia, attentional

Auditory input lexicon: and single semantic system model, 294–5; in spelling, 139f

Baseline tests, 51, 231

Basic level concepts, 269

## Subject Index

447

- Blindsight, 382–88, 89f and ability to reach to a point, 384–5, 388; and experience of vision, 384, 387–8; and fixation ability, 384; localisation of, 383–4; and pattern discrimination, 387; and possible artefacts, 384–8; and prototypic patient, 383–4; scattered-light experiments, 385–8; and shape discrimination, 387; and visual field defects, 383
- Block design, 232; and frontal lesions, 331, 347
- Body schema, 34 (*see also* Gerstmann syndrome)
- Boston aphasia battery, 30, 176, 179–80, 229; and speech in short-term memory deficits, 59; and deep dyslexia, 102
- Broca's aphasia, *see* Aphasia, Broca's
- Brown–Peterson procedure, 5n, 27–9, 45–6, 135; proactive interference in, 45n; and digit span deficits, 52–3
- Capture errors, 328, 335n
- Cascade models of processing, 22n, 68; and dyslexia, 260–4; and anomia, 262–3, 95–6
- Category decisions, in dyslexia, 78
- Category specificity, 297–304 (*see also* Semantic memory disorder); abstract vs concrete words, 298; for animals, 299–300; body parts, 298–9; for colours, 299; for countries, 299; in deep dyslexia, 117–9; fruit and vegetables, 301; living vs. non-living, 297–301; for objects, 299–302
- Cognition, theories of, 22–5
- Cognitive estimates test, 348–9, 377
- Cognitive psychology: in reading, 71–2; and representation of meaning, 291
- Cohort theory, 277n
- Colour vision, *see* Achromatopsia
- Commissurotomy, *see* Split-brain patients
- Compensatory procedures: for semantic impairment, 305; theory, 86–7
- Comprehension: in Broca's aphasia, 176–7, 180; in conduction aphasia, 61–5; and information load in sentences, 61; phonological buffer in, 65; of sentences, 270–1; sentences, information load in, 61; sentences, reversible, 62; and short-term memory, 57–67
- Comprehension subtest (of WAIS), 90
- Computational autonomy, 20
- Computer modelling, 22–3
- Conduction aphasia, *see* Aphasia, conduction
- Confabulation, 375–8; aetiology of, 375–7; and dementia, 377; localisation of, 398f
- Connectionist modelling, *see* Distributed memory models
- Consciousness, 381–404 (*See also* Anosagnosia; Neglect; Split-brain patients); Bisiach's critique, 396–401; body-mind dilemma, possible lines of attack, 401–4; a functionalist perspective, 381, 388, 391, 395; information-processing theories of, 382, 401–4; knowledge without awareness, 388–91; philosophical problems in theorising on, 381n, 382; and retroactive antedating, 382n, 403n; and science, 382–3; and split-brain patients, 391–6; subjective awareness, 396
- Constructional apraxia, 6, 210–11
- Contention scheduling, 332–5, 339–45, 389f (*see also* Supervisory Attentional System theory); and awareness, 402; localisation, 334n; and Supervisory Attentional System model, 334f
- Continuum of processing space, 249–50, 265n
- Controlled processing, 309, 335n (*see also* Attention)
- Corpus callosum patients, *see* Split-brain patients
- Coupled systems, 251, 296–7
- Critical variable approach, 72, 235–7
- Dementia: Alzheimer's disease, reading in, 88–9; and anosagnosia, 397–8; and Vocabulary subtest of WAIS, 51n
- Denial, *see* Anosagnosia
- Diagram-makers, the, 6–17, 29, 30, 245; and dissociation, 256; Freud's critique of, 245–7
- Digit span (*see also* Short-term memory); in amnesia, 48–50; and Brown–Peterson task, 52–3; deficits in, 41–2; for familiar vs. unfamiliar stimuli, 56–7; in normals, 56; in short-term memory deficits, 55–6
- Digit symbol (subtest of WAIS), 232; and the frontal lobes, 344
- Dissociation, 29 (*see also* Single-case design; Artefacts); and aphasia, 245–60; asymmetry with association, 35; in conduction aphasia, 164; continuum of a processing space, theory of, 249–50; coupled systems, theory of, 251; degree of specialisation and depth of dissociation, 257–8; in distributed network models of memory, 253–7; double, 36, 234–7, 239, 247–9; double, theoretical explanation of, 248–9; double vs. single, 255; episodic vs. semantic memory, 367; examples of, 264–5; familiar and unfamiliar sounds, 57; fluent and agrammatic aphasics, 242–3; for fruit and vegetables, 301; functional dissociation vs. functional specialisation, 257–58; functional specialisation, forms of, 258–60; individual differences, accounting for, 238–41; inferences about isolable subsystems, 245; in group studies, 207–8; input and output phonological systems, 169; isolability, degrees of, 251–2; as a methodological approach, 34–7; multi-level systems, theory of, 252–3; perception and production in language, 172; and perceptual deficits, 189–90; in phonological alexia, 119–20; phonological and lexical agraphia, 134–8; making inferences from, 238–43; and modularity, 247–9; and non-

448 *Subject Index*Dissociation (*cont.*)

modular systems, 249–53; overlapping processing regions, theory of, 250–1; phonological reading vs. reading for meaning, 258n; reading and comprehension, 89–90; reasoning ability and knowledge, 276; recency and non-recency, 47–8; and reorganisation, 241–3; semantic and syntactic processing, between 276–7; in semantic memory, 299; semantic memory and span performance, 277n; semi-module, theory of, 251–2; sensation, disorders of, 184–7; sensory quality vs functional specificity, 303n; set of, 35; short and long-term stores, 47–9, 238n; in short-term memory, 43–9, 62–5; in single-case design, 221–2, 226–7; surface and deep dyslexia, 87; theories of, 241–57; trend dissociation, 239, 256n, 258n; types of, 227–8; in visual perception, 187–92

Distraction effects, in STM tasks, 45, 60

Distributed memory models, 252n, 253–7, 260–4; drawing inferences from, 253–5; layering within the network, 256; of reading, 96–7, 263–4; of semantic memory, 256, 289–90, 302–4; and spontaneous recovery, 264n; and trend double dissociation, 258n

Dual-task experiments, 170–1, 232–3, 259; inferences to parallel processing, 308

Dyscalculia, *see* Acalculia

Dyslexia, 68–129 (*see also* Letter-by-letter reading; Phonological alexia); acquired dyslexia, history of theory, 68–73; agnosia alexia, 73; alexia without agraphia, 69–70, 74n; cascade models, 95–6; category decisions in, 78; central, errors in, 321; central vs. peripheral dyslexias, 73; compensatory procedure theory, 86–7; concrete word syndrome, 117–19; deep dyslexia, *see* Dyslexia, deep; dissociations, surface vs. deep, 87; letter-by-letter reading, 73–81, 87; localisation, 280; multiple route model of, 71–3; neglect dyslexia, *see* Dyslexia, neglect; and normal function research, 126–7; orthographic processing in, 75, 96; orthographic–semantic route, 128; patterns in, 70–1; peripheral, 68–87; peripheral dyslexia, effect of script, 75; phonological alexia, *see* Phonological alexia; phonological vs. semantic routes, 128; phonological system in, 71f; pure alexia, 73; reading and comprehension, dissociations in, 89–90; regularising effect in, 82–3; research problems in, 68–73, 126–9; semantic access dyslexia, 73; semantic dyslexia, *see* Dyslexia, semantic; semantic errors, 128n; semantic system in, 71f; and simultanagnosia, 76–7; spelling dyslexia, 73; spelling to sound translation, 81, 96; surface, *see* Dyslexia, surface; symptom-complex approach to, 84; three-component system, 96–7; two route model of, 71f, 81,

84; visual, 70n; visual word-form system, 71f, 79–80; word-form dyslexia, 73, 77–81; word-form model, 94f; word frequency and naming latency, 94; word length effects in, 74–5

Dyslexia, attentional, 73, 311–14; localisation of, 311; and migration errors, 312–13; and pattern-masking, 312–13; and perception, 311

Dyslexia, deep, 30–3, 70–2, 98–119; and abstract word difficulty, 105–6; and aetiology, 118; Broca's aphasia, relation to, 99, 101–2; and cascade models, 260; category specificity, 117–19; conclusions about, 116–19; concreteness and imageability effects, 101; and deep dysgraphia, relationship with, 159; difficulties patients experience, 102–4; and ease of predication, 106; explanations of, 101–19; forms of, 108–10; and graphemes, 70n; input orthographic and output phonological processes, 259; normal isolated semantic route theory of, 104–8; and phonological alexia, 119–22, 142n; pseudo-homophones, 105n; and reading aloud, 100; right hemisphere theory, 105, 112–17; semantic errors in, 33, 98, 103–4, 110, 111, 264; and semantic errors in normals, 107; semantic lexicon concept, 107f; semantic route, 105–8; semantic to visual errors ratio, 108–9; and split-brain patients, 112–13; and surface dyslexia, 159; and symptom-complex approach, 99; varieties of, 111f; visual errors in, 108–9, 110f, 264; visual field studies, 113–15; visual word-form system, 109–10; and word class effects, 100–1, 103, 111–12; and word definition, 106; and word type effects, 101

Dyslexia, neglect, 73, 320–3, 327; and letter identity, knowledge of, 322; and letter position, knowledge of, 322; localisation of, 322–3; and right hemisphere, 321; why it is a peripheral dyslexia, 321

Dyslexia, phonological, *see* Phonological alexia

Dyslexia, semantic, 88–98 (*see also* Dyslexia, surface); lexical analogy theory, 92, 93n; multiple levels account of phonological route, 95; and normal experiments, 93–4; phonological reading in, 88–98; regularisations, 92; typicality effects, 95

Dyslexia, surface, 70–2, 81–7, 90–8 (*see also* Dyslexia, semantic); error types, 81, 83; grapheme–phoneme correspondences, 81–2, 84–6; lexical analogy theory, 85–6; partial failure error in, 83n; regularising effect in, 82–3; and semantic dyslexia, 91; as symptom-complex, 82–4; three route model of, 91–8; visual morphemic analysis, 90–1

E-MOP theory, 370–3 (*see also* Memory organisation packets)

*Subject Index*

449

- Engrams, 372
- Episodic memory, 47, 356–8 (*see also* Amnesia; Memory; Semantic memory disorder); and awareness, 402; episodic memory, role of, 368–70; episodic–semantic dissociation, 367; episodic–semantic distinction, 356–8, 368, 373; theory, disadvantages of, 373–4
- Equipotentiality, 248–9
- Evoked potentials, and frontal lobe studies, 343, 349f
- Extinction, 317
- Face recognition, *see* Prosopagnosia
- Famous faces test, 362
- Fractionation, 35–6
- Frontal lobe amnesia, 374–9; contrasted with classical amnesia, 378–9; and Norman–Bobrow theory, 378–9
- Frontal lobes, 328–52; and anosagnosia, 397–8; and arithmetic, 331–4; and attention, 343–5 (*see also* Attention; Supervisory attentional system); and Block Design performance, 331, 347; and Broca's aphasia, 10; and cognitive estimates test, 348–9; concentration, maintenance of, 344; and contention scheduling, 339–45; co-ordination of complex activities, 329; deficits as failure to inhibit central sets, 342, 350; deficits in everyday behaviour, 335–6; delayed response tasks, 350–1; and distractibility, 343, 351; E-MOP theory, 370–3; frequency discrimination, 375–6; and hyperactivity, 343; and IQ tests, 329, 335; and Korsakoff's syndrome, 28–9; and language, 337; left–right differences, 330, 344, 350; localisation of function, 337; Luria's theory, 350–2; and maze learning, 345; and memory, 337–8 (*see also* Frontal lobe amnesia); methodology of study, 338n; and motor strip, 337; not equipotential in animals, 350; and novelty, 329, 349; and organisation, 375; and P300, 349–50; perseveration, 336n; and planning skills, 329, 338–9, 345–8, 350–1; problem solving and coping with novel situations, 345–50; problems with research on, 330–52; programming, verification and regulation, 330, 332, 352; results of damage to, 335–6; and Rey complex figure performance, 331; selective attention tasks, 343–5; and Supervisory Attentional System, 339–45; Supervisory Attentional System theory, 332–52; tests of frontal lobe function, 337–9, 340–5, 375–7; and utilisation behaviour, 342–3; and Wisconsin card sorting performance, 340–2
- Functional Specialisation, 245–60 (*see also* Dissociation); cascade models, 260–4; common dissociation site across patients, 258–9; correspondences with other experimental paradigms, 259–60; distributed memory models, 260–4; forms of, 258–60; measurement of resource-loss difference, 259; patterns of dissociation across patients, 259; and sensory-quality information, 301–2
- Functionalism, 381, 388, 391, 395
- Function matching, 190–1
- Gerstmann syndrome, 3, 6, 32–4, 272 (*see also* Agnosia)
- Grammaticality judgements, in STM patients, 62
- Grapheme–phoneme correspondences, 91–2, 96; in surface dyslexia, 81–2, 84–6
- Graphemes, definition of, 70n
- Graphemic motor pattern, stores and buffer, 152–4, 139f, 148–9
- Graphemic buffer, 136, 145–52
- Graphemic output lexicon, in spelling, 136
- Group study, 6, 13–14, 183, 203–12, 247–8 (*see also* Artefacts; Methodology; Single-case design); and aphasia research, 174–80; contrasted with single-case design, 203–4; difficulties with, 25, 208–13; dissociations in, 207–8; validity of, 205–8, 218
- Halstead–Reitan battery, 13
- Haplographies, 147
- Herpes Encephalitis, 299–301
- History of neuropsychology, 1–17
- Homophones, 143–4
- Illusory conjunctions, 314n
- Individual difference artefacts, 238–41
- Individual differences, 219, 265n
- Information processing models, advantages of, 15, 23–4
- Informational encapsulation, 20, 306
- Input–output systems, in language, 58–64; common vs. separate, 162–4
- Knowledge, 269–306 (*see also* Semantic memory disorder); general impairments of, 274–8; of superordinate of items, 278; without awareness, 388–91
- Knox cubes, and frontal lobes, 344
- Korsakoff syndrome: and amnesia, 27–9, 362–3, 367; and frontal lobes, 28–9
- Language, 158–82 (*see also* Aphasia); central syntactic processing mechanism, 178–82; deficits in dyslexia, 69f; development, 8; history of research, 158–9; input and output systems, 158–64; localisation of function, 160, 164, 170; multiple syntactic processing systems, 171–4; and music processing, 170–1; and right hemisphere, 391–2; syntax, 18–9, 43
- Lateralisation, male–female differences, 209
- Letter-by-letter reading, 73–81, 87, 113, 114f; localisation of, 214; and semantic memory, 290–1

450 *Subject Index*

- Levels of explanation (and Marr's position), 22–3
- Lexical aphasia, *see* Aphasia, lexical
- Lexical analogy theory, 85–6, 137–8
- Lexical decision tasks, 66; performance by letter-by-letter readers, 290–1
- Lexical non-semantic route, 142–3
- Lobectomy, 337n
- Localisation; and double dissociation, 254–5; relevance of, in methodology, 213; value of equivalent lesion sites over patients, 258
- Logogen Model, 262; auditory input, 8, 9n; articulatory output, 9; and cascade theory, 262; graphemic output, 132; phonological, input and output, 162–4
- Malapropisms, 170n
- Maze learning, and frontal lobe lesions, 345
- Memory (*see also* Amnesia, Episodic memory; Schemata; Semantic memory disorder; Short-term memory): and aphasia, 155; distributed models of, 252n, 253–7; double dissociation in memory system, 253–7; modal model, 54; multi-store model, 44–54; Norman–Bobrow theory, 373–4; relationship between long- and short-term, 44–57; research problems in, 4, 5n; serial store model, 54; Wechsler memory scale, 354
- Memory organisation packets (MOPs), 307–8, 333n, 335; and frontal lobe lesions, 322
- Methodology (*see also* Artefacts; Dissociation; Single-case design; Group study): aetiology vs deficits, 25–9; in aphasia, 11–12; averaging across subjects, pitfalls of, 206; clinical aspects in assessment, importance of, 51, 215–16; compensatory strategies, 80; critical variable approach, 72; development of, in neuropsychology, 3–17; dissociation, *see* Dissociation; and distributed networks, 253–7; extrapolation from normal function, 21–5; and frontal lobe studies, 338n; functional autonomy of methods, 5; group study, *see* Group study; and localisation, 213–14; probabilistic approach, 32–4; problems in, 5–15, 25; rejection of ultra-cognitive neuropsychology, 205–16; replication of observations, 31–2, 49; selection artefacts, 210–12; symptom-complex approach, 33–4
- Migration errors: and attentional dyslexia, 312, 320; in normals and dyslexics, 313
- Mixed case, 11–12 (*see also* Methodology, Pure case, Single-case design)
- Modularity, arguments for, 18–256; and computational autonomy, 20; and consciousness, 381–404; and dissociation, 247–9; and Fodor's theory, 20, 259–60, 269–73, 305–6; and informational encapsulation, 20, 270; input vs. central systems, 271; and non-modular systems, 249–53; non-modular systems and acalculia, 269–73; not entirely innately determined, 68, 77; observation–inference interface, 271
- Modules, and schemas, 308n
- Monster-barring, 208
- MOPs, *see* Memory organisation packets
- Motor images, loss of, 10
- Naming, 30; and semantic memory, 297–306; vs. miming performance, 293; word frequency and naming latency, 94
- NART, 51n
- National (New) Adult Reading Test, *see* NART
- Neglect, 311–20, 324–7 (*see also* Anosognosia); as a disorder of spatial representation, 323–6; and line bisection, 327; localisation of, 317–18, 322–3; in non-perceptual tasks, 324–6; as a pathology of attention, 316–323, 326–7; not a primary sensory disorder, 315; sensory, 315; and spatial agnosia, 316; and visual disorientation, 186n, visual neglect and imagery, 324–26
- Neglect aphasia, *see* Aphasia, neglect
- Neologisms, in jargon aphasia, 230
- Neural net model, *see* Distributed memory models
- Neuropsychology: and the body–mind dilemma, 401–2; claimed derivative nature of theorising, 4, 127; and consciousness, 400–4; history of neuropsychology, 1–17; non-derivative nature of theorising, 67, 127; transition to the information processing approach, 15, 247
- Norman–Bobrow theory of memory, 373–4
- Object recognition, 183–200, 271n (*see also* Agnosia); cognitive psychology approach, 193–4; and visual semantic memory system, 389f
- Optic aphasia, 198n, 200n, 292, 296n; and function-matching tests, 295; visual–verbal semantic transmission, 293–4
- Orthographic input lexicon, 294–5
- Overlapping figures tests: Ghent, 189–90; Poppeleuter, 199
- Overlapping processing regions, 250–1
- Paired associate learning, 47; and amnesia, 361; and frontal lobe amnesia, 377–8
- Parallel processing, problems of, 307–10 (*see also* Distributed memory models)
- Paraphasias: literal, 57–8, 261; phonemic, 58
- Pattern masking, 5n; and attentional dyslexia, 312–13; and recognition of following associate, 389
- Pattern of performance, defined, 219
- Peabody Picture Vocabulary Test, 90, 144, 160f; and conduction aphasia, 166, 167; deep dys-

*Subject Index*

451

- lexia, performance in, 108, 110, 115; and split-brain patients, 392
- Perception, 19 (*see also* Perception, visual; Visual system); and letter-by-letter reading, 73–4; of letters, 185; localisation of objects, 185–6; model of stages in processing, 192, of movement, 185; object constancy, 195; object recognition, *see* Object recognition; shape discrimination, *see* Shape discrimination; speech, *see* Speech; word perception, 43–4
- Perception, visual, 183–200 (*see also* Blindsight; Optic aphasia; Perception; Visual disorientation); acuity, visual, 310, 386; depth cues, effect of, 196; dissociations, inferring, 249–50; early visual processing, 69f; figure-ground units, 313–14; form discrimination, 386; methodology of study, 183; minimal distinctive feature condition, 194; perceptual classification, 309; of shape, 184–5; visual field defects and localisation, 315n
- Performance/resource curves, 232–6
- Perseveration, 336n, 339, 340–2; forms of, 341–2; and Wisconsin card sorting performance, 340–2
- Peterson procedure, *see* Brown–Peterson procedure
- Phonetic disintegration syndrome, 173
- Phonological agraphia, *see* Agraphia, phonological
- Phonological alexia, 119–26, 149; abstract word reading in, 121–22; contrasted with deep dyslexia, 120–2; and deep dysgraphia, 141–2; dissociations in, 235–7; explanation of, 123–6; function word reading, 125–6; graphemic complexity, 122; graphemic output lexicon, role of, 149; grapheme–phoneme correspondences, 122; homophone superiority effect, 124; impaired and intact processes in, 119–26; multiple-levels position, support for, 125; and non-words, 135; semantic system mediation, 125–6; speech production problems in, 120n, 123, 125n; and spelling, 141–2; spelling-to-sound translation of non-words, 124f; third route in, 125; varieties of, 123–6; visual approximation strategy in, 122–3; word and non-word reading, 120–2
- Phonological confusibility, and span deficits, 64
- Phonological familiarity and span performance, 277n
- Phonological input buffer, 45, 145; and speech comprehension, 65; and speech production, 162; word-form system, 136
- Phonological output buffer, and spelling, 136f, 138–9, 149
- Phonological output lexicon: and single semantic system model, 294–5; and spelling, 136f, 138–9, 141f
- Phonological reading, 97–8; in semantic dyslexia, 88–98
- Phonological route, theories of, 91–98, 125
- Phonological similarity effect, 46, 59–60
- Phonological spelling, *see* Agraphia, lexical
- Phonological words, 177
- Phonology, and word processing, 160–1
- Pictogen, 193
- Picture arrangement subtest (of WAIS): and simultanagnosia, 76–7
- Planning, 338–9 (*see also* Frontal lobes); planning programs, 351–2, 371–2 (*see also* Artificial intelligence)
- Pre-morbid ability, 51n
- Priming effects, 169, 379; in amnesia, 358–61; modality specificity, 360; in normal subjects, 360; semantic, 391
- Procedures, for task performance, 219, 226
- Prosopagnosia, 187–8, 390; a four-stage theory, 390; and GSR studies, 390; localisation, 390; as a semantic access phenomenon, 391; and semantic category judgements, 390
- Pseudoagnosia, 192, 196n
- Pure Case, 11–12 (*see also* Methodology; Mixed case; Single-case design)
- Pure Tasks, 221, 226
- Raven's matrices, 42; performance of split-brain patients, 393, 394f
- Reading (*see also* Dyslexia; Phonological route): Freud's model, 246f; non-words and irregular words in children, 265n; reading-to-meaning model, 263–4; spelling-to-sound morphemic correspondences, 283n
- Recency effect, 47; in free recall, 5n; short-term memory patients and amnesics, 48–9
- Recognition memory, 25–6, 47f; test of, 30
- Recovery of function, 241 (*see also* Reorganisation following lesions)
- Reductionism, 10
- Reference papers, 42n
- Regularising effect, 82–3, 92
- Rehearsal loop, in verbal recall, 55f
- Relateralisation of function, 169n, 241–3, 283n
- Reorganisation following lesions, 241–3
- Repetition, deficits in, 41–2; in amnesia, 48–50; and comprehension, 276; in conduction aphasia, 164; from dictation in agraphia, 140
- Resource: artefacts of, 272n, 293, 232–7; and dual-task experiments, 232, 233n; and form of functional architecture, 259; measure of, 219–20, 232–7
- Rey complex figure and frontal lesions, 331
- Schemata, 307–8, 333n, 334, 374; and consciousness, 400–1; and modularity, 308n; and Supervisory Attentional System, 350
- Scripts, 307–8, 335; and frontal lobe lesions, 332
- Semantic access disorders, 278–86, 302 (*see also* Semantic memory disorder); access disorder vs. degraded store disorder, 281–6; and cat-

452 *Subject Index*Semantic access disorders (*cont.*)

egory judgements, 290; consistency in, 281–2; depth of processing, 282; differences across patients, 284–5n; frequency of item, effect of, 283; presentation rate, effect of, 283–5; priming, 282–3; semantic access vs. degraded store disorder, 281–6; and visual word-form system, 290–1n

## Semantic coding, 27

Semantic errors, 33, 285; in central dyslexias, 128n; and conduction aphasia, 164–6

Semantic memory disorder, 46n (*see also* Agnosia; Category specificity; Episodic memory; Knowledge; Semantic access disorders); access disorder vs degraded store disorder, 281–6; agrammatism, 304–5; and aphasia, 291–7; category judgements, 288–9n; category specificity, *see* Category specificity; and comprehension of words, 303f; consistency of responding, 277–8, 281–2; degraded store vs. access disorders, 278; and degraded store theories, 291–2, 302; depth of processing, 282; dissociation with span performance, 277n; distributed memory theories, 286; and distributed network models, 256, 289–90; elements of, 286–91; episodic–semantic dissociation, 367; episodic–semantic distinction, 356–8, 368; feature theories, 286; frequency of item, effect of, 283; functional specificity, 302; how information is laid down in semantic memory, 368–9; identifying objects from description, 292f; isolability of knowledge from language, 277; localisation of, 297–9, 369; modality specificity, 291–7, 303; multiple systems model, 291, 293, 294f; naming deficits, 302, 305; network theories, 286–8; picture naming, 291–2; presentation rate, effect of, 283; priming, 282–3 (*see also* Priming effects); and reduced input, 290–1; Reiger's model of access, 287–8; sensory-quality information, 301–2; sensory-quality information and functional specificity dissociation, 303n; single system model, 294f; superordinates, effect of, 286–9; tacit knowledge, 291n; theories of structure, 286; verbal vs. visual semantic systems, 296, 303–4; visual semantic memory system, 296, 389f

Semantic processes, in associative agnosia, 198–200

Semantic system, and input–output systems, 162–4; in spelling, 136

Semi-modules, 251–2, 303

Sensory disorders, localisation of function, 187

Serial sevens, and the frontal lobes, 344–5

Shape discrimination, localisation of, 189

Short-term memory, 27, 41–67, 238n (*see also* Amnesia; Digit span; Episodic memory; Memory; Phonological input buffer; Semantic

memory disorder); alternative hypotheses, 49–54; auditory–verbal span performance, 45; auditory–verbal store, 46–9, 64–5; and comprehension, 63–5, 67; and comprehension, preservation of gist in, 61, 63; and conduction aphasia, 57–8, 76; and digit span, 41–4, 50; dissociations in, 44–9; distraction, effects of, 45, 60; grammaticality judgements, 62; interference effects in, 45; and lexical decision tasks, 66; localisation of, 42–3; and long-term memory (LTM), 41–2n; multi-store theories, 44–54; nonsense syllables, recall of, 65; order effects, in span tasks, 46–7; and paraphasias, literal, 57–8; and phonological processing, 65–6; and phonological short-term store, 48–9; phonological similarity effects, 46, 55, 59, 64; sequence–order hypothesis, 53; and serial recall paradigms, 45n; span deficits and Brown–Peterson procedure, 53; and speech comprehension, 57–66; and speech production, 57–66; and speech, relationship with, 43–4, 241–2; and speech, spontaneous, 58–9; theoretical inferences from span deficits, 54; verbal vs. non-verbal dissociations, 56–7; visual similarity effects, 55; verbal vs. visual, 55, 56–7; words vs. letters, recall of, 53

Simultanagnosia, 3, 15, 34, 75–9; and dyslexia, 75–7; and picture arrangement, 77

Single-case design, 13–37, 217–44 (*see also* Artefacts; Dissociation; Group study; Methodology); advantages of, 203–4; assumptions of, 218–20; and conduction aphasia, 50–4; critical-variable methodology, 236; design efficiency, maximising, 221; and digit span, 50; dissociation and resource artefacts, 234–5; dissociation, types of in, 227–8; dyslexia and dysgraphia research contrasted, 226–7; fractionation of function in, 222–4; individual differences, accounting for, 238–41; inference from single case to general conclusions, 217–18; and language research, 182; and normal function, 217–20; performance–resource relationships, 234–6; pure cases, relative importance of, 221; serial vs. parallel patterns, 237f; theories, falsifying invalid, 224–8; theory from evidence, development of, 220–4; and visual perception studies, 183

Sodium Amytal, and aphasia, 243n

Sound-to-spelling transformations, 136f (*see also* Agraphia)

Speech (*see also* Aphasia): perception, and short-term memory, 66; production, ordering of phonemes in, 50; production, and short-term memory, 57–66; production and word selection, 260–3; repetition and, 11; spontaneous, 276; and syntax, 43; and writing, two route model of, 139

*Subject Index*

453

- Spelling, 15–16 (*see also* Agraphia); aloud, 155–7; deficits, with preserved writing, 156; graphemic output lexicon in lexical agraphia, 134; and imagery, 325; two route model of, 139; word-form model, 145f
- Spelling-to-sound translation, 81, 96, 138–9; connectionist modelling of, 96–97
- Split-brain patients, 308, 382–3, 391–6; and consciousness, 391–6; and cross-cueing, 394n; and dual awareness, 392–5; extrapolation to normal subjects, 392; and intention, 396; and multiple minds, 394–5; perception of chimeric figures, 394; and rationalisation, 395–6; and right hemisphere language functions, 112–3, 391–2; right hemisphere role in consciousness, 394–6; simultaneous stimuli presentation, 395–6; and subjective awareness, 396
- Spontaneous recovery, 264n
- Stages models, 260
- Sternberg procedure, 5n
- Stimulus suffix effect, 5n
- Subsystems (*see also* Modularity): and cascade processing, 22n; 'functional', 21–2; 'isolable', 21–2
- Supervisory Attentional System (SAS) theory, 332–52 (*see also* Attention; Frontal lobes); and anosagnosia, 400; and awareness, 401–4; equipotential or modular, 350–2; and E-MOPs, 372; and engrams, 372; and the frontal lobes, 339–50; and memory, 370–9 (*see also* Frontal lobe amnesia); model of, 334f; programming, regulation and verification, 335; and schemata, 372; three level control structure of, 352
- Supranuclear palsy, progressive, 320n
- Supra-span, 48
- Surface dysgraphia, *see* Agraphia, lexical
- Symptom-complex approach, 32–4; to dyslexia, 84
- Syndrome, forms of, 31–7 (*see also* Korsakoff syndrome; Gerstmann syndrome); mixed, 34–5; multicomponent, *see* Syndrome, mixed; psychologically strong/weak, 33–4
- Syntax, and conduction aphasia, 63–4
- Tacit knowledge, 388–91; and different routes, 388–90; and reduced activation, 391
- Tactile searching test, 315f
- Task demand artefacts, 228–32
- Telegrammatic speech, 99
- Token test, 61, 192; and Broca's aphasia, 181; and short-term memory, 64
- Tower of London test, 347
- Trail-making test, 377
- Transcortical motor aphasia, *see* Aphasia, transcortical motor
- Transcortical sensory aphasia, *see* Aphasia, transcortical sensory
- Transparency, 217
- Utilisation behaviour, 342–3
- Verbal fluency test, 377n
- Verbal recall, rehearsal loop in, 55f
- Visual attention, 307–27; active selection attentional control, 310–11; localisation of attentional control, 311
- Visual disorientation, 185–7, 312; relationship with neglect, 186n
- Visual field studies, and dyslexia, 113–15
- Visual input lexicon, in spelling, 139f
- Visual short-term storage (STS), 48, 55
- Visual system, 19 (*see also* Achromatopsia; Perception, visual)
- Visual word-form system, 71f, 79–81, 84; and conduction aphasia, 165
- Vocabulary subtest (of WAIS), 90; in a deep dysgraphic, 142; and dementia, 51n
- Voice-onset time, 172
- WAIS, 30, 41–42, 51n, 52; profile of conduction aphasic, 167–8; profile of a dyscalculic, 272f; profile of a short-term memory deficit patient, 42f; verbal-performance discrepancies, 209; and the WMS, 354
- Wason's four-card problem, 5n
- Wechsler tests, *see* WAIS; WMS (Wechsler memory scale)
- Wernicke–Lichtheim theory, 7–12, 50
- Wernicke's aphasia, *see* Aphasia, Wernicke's
- Wisconsin card sorting test, 336n, 340–2, 377; and perseveration, 345; reasons for impairment on, 341–2
- WMS (Wechsler memory scale), 354; problems in its use in amnesia research, 354n, 356n; and the WAIS, 354
- Word class effects, in deep dyslexia, 100–1, 103, 111–12
- Word-form systems, 94f; graphemic output, 145f; phonological input, 145f; phonological output, 145f
- Word frequency effects, 261–2, 278; and naming latency, 94; and phonological agraphia, 135
- Word imageability effects, in conduction aphasia, 167
- Word length effects, 64; in dyslexia, 74–5; in lexical agraphia, 155
- Word order effects, 177n
- Word type effects: in deep dysgraphia, 141; in deep dyslexia, 101
- Word superiority effect, 5n
- Writing: copying, model of, 152–3; Freud's model, 246f; from dictation, in agraphia, 140–1; graphemic output lexicon role of, 149; level units within, 147f; lexical, 135; and the peripheral agraphias, 145–52; semantics, writing via, 138–42; theory falsification in, 225; types of errors, 140–5

## Author Index

- Abelson, R., 307, 332  
 Ackley, D. H., 263n  
 Adams, R. D., 29  
 Agnetti, V., 362, 364n  
 Ajax, E., 70  
 Ajuriaguerra, J. de., 14, 297  
 Akelaitis, A. J., 308  
 Alajouanine, T., 73  
 Albert, M. L., 6, 50, 52n, 53, 56, 58, 70, 77, 183n, 190, 212n, 283n, 297, 302, 330, 342  
 Albert, M. S., 362, 364, 365, 366n  
 Alexander, M. P., 376  
 Allport, D. A., 9, 22n, 23, 50, 59, 65, 68, 101, 126, 147n, 161, 162, 170, 302, 303, 310, 312, 372  
 Anderson, J. A., 97n, 252n, 289  
 Anderson, J. R., 4, 286, 291, 358  
 Andreewsky, E., 82, 283n  
 Angelergues, R., 50, 58, 76  
 Anton, G., 397  
 Antonis, B., 170  
 Anzai, Y., 347  
 Arbib, M. A., 23  
 Arbit, K., 48  
 Archibald, Y., 339n  
 Arrigoni, G., 210  
 Assal, G., 140, 141n, 292  
 Atkinson, R. C., 54, 67, 401  
 Audley, R. J., 206  
 Baars, B. J., 401  
 Bachevalier, J., 358  
 Baddeley, A. D., 24n, 25, 27, 28, 42, 44, 45, 46, 47n, 48, 49, 54, 55, 60, 61, 62, 64, 66, 67, 146, 148, 150, 324, 327, 339n, 353n, 357, 358, 368n, 370, 371, 376  
 Badecker, W., 34, 178, 217n  
 Bahrack, H. P., 364, 367  
 Baker, C., 63n, 85  
 Baker, E., 279  
 Balint, R., 186n  
 Barbur, J. L., 386  
 Barnard, P. J., 106  
 Barnes, M. A., 94  
 Baron, J., 85, 93  
 Barry, C., 120  
 Bartlett, F. C., 3  
 Bartley, S. H., 385, 386n  
 Basili, A. G., 42, 58f, 160, 161, 162, 272  
 Basso, A., 42, 45, 47f, 58f, 130, 131, 140, 170, 209n, 210, 211, 212  
 Bastian, H. C., 7, 9  
 Battersby, W. S., 315, 340n, 383  
 Bauer, R. H., 183n, 343, 390  
 Baxter, D. M., 133, 141, 142, 143, 152, 153, 159, 324, 326  
 Bay, E., 1, 174  
 Beatty, J., 54  
 Beauvois, M-F., 74, 78, 93n, 100n, 119, 121f, 122, 123, 124, 129, 132, 137, 139n, 143, 155, 159, 231, 235, 248n, 292, 293, 377, 378  
 Bender, M. B., 3, 315, 340n, 383  
 Benson, D. F., 50, 57, 69, 73, 174, 199, 212n, 214, 337n, 340, 341, 344  
 Benton, A. L., 34, 210, 272, 292  
 Berg, E. A., 340  
 Bergen, J. R., 310n  
 Bergson, H., 9  
 Berndt, R. S., 42, 58f, 102, 160–2, 172n, 174, 177, 181, 229, 299, 301, 302n  
 Berti, A., 323, 396–9, 403  
 Besner, D., 82, 83f, 93, 98, 105n, 110, 113–15  
 Bever, T. C., 4  
 Bharucha, N., 187  
 Bianchi, L., 329  
 Bierwisch, M., 274  
 Binder, L., 153  
 Binford, L. R., 245  
 Bisiach, E., 316, 323–5, 382n, 396, 396–9, 403  
 Blumstein, S. E., 172, 279, 283  
 Bobrow, D. G., 36n, 232, 374n  
 Bodamer, J., 187  
 Boden, M., 334  
 Bogen, J. E., 308, 391  
 Bogyo, L. C., 105  
 Boller, F., 272  
 Bornstein, B., 188  
 Bouchard, R., 50, 57  
 Bowe, C. H., 373  
 Boyes-Braem, P., 269, 276, 286  
 Brain, R., 316  
 Brierley, J. B., 29, 369  
 Broadbent, D. E., 24n, 47n, 55, 56, 260, 309, 310, 335n  
 Broadbent, M., 47n, 55, 56  
 Broca, P., 7, 10, 50  
 Brooks, D. N., 358  
 Brown, J. S., 299  
 Brust, J., 211  
 Bruun, B., 211  
 Bryant, P., 265n  
 Bub, D., 89, 90, 91, 128, 134, 138, 140, 141, 231  
 Buchanan, M., 64  
 Buckingham, H. W., 230n

*Author Index*

455

- Butters, N., 26, 27, 28, 29, 350n, 353n, 354, 362, 364, 365, 366
- Butterworth, B., 42, 58, 63, 102n, 230
- Buttet, J., 140, 141n
- Byng, S., 72, 83, 85, 86, 97
- Caltagirone, C., 212n
- Calvanio, R., 77, 160
- Campbell, R., 63, 137, 138
- Campion, R. L., 384, 386, 387
- Canavan, A. G. M., 330
- Cancelliere, A., 231
- Capatani, E., 170, 209n, 211n, 212n, 324, 325
- Caplan, D., 23, 63n, 80, 214, 217
- Caramazza, A., 29, 31–4, 42, 58f, 61n, 99n, 102, 106n, 110n, 133, 144n, 148, 149f, 150, 151, 159–62, 172, 174, 177, 178, 181, 204, 205, 208, 217, 221, 226, 229, 234, 235, 272, 279, 299, 301, 302n, 304, 305f
- Carey, P., 297
- Carlson, N. R., 84
- Carroll, J. M., 174
- Cermak, L. S., 26, 27, 28, 29, 353n, 354, 363–5
- Chain, F., 198
- Chambliss, D., 367
- Charniak, E., 308n, 334
- Chase, W. G., 291
- Chedru, F., 130, 198
- Cheeseman, J., 389, 391
- Chomsky, N., 18, 19, 20n
- Chorover, S. L., 213n
- Christie, D. F. M., 55n
- Cicerone, K. D., 341
- Ciplotti, L., 123n, 160
- Clark, E. V., 63
- Clark, H. H., 63, 291
- Cohen, A., 317, 318, 319, 358, 362, 364, 375
- Cohen, N. J., 361n, 364n, 366n
- Cohen, Y., 319n, 320n
- Cole, M., 186, 213n
- Colle, H., 60
- Collins, A. M., 271n, 286, 287, 367n
- Collins, G. H., 29
- Coltheart, M., 30, 33n, 70, 72, 80–3, 85, 86, 91, 93, 97–100, 102n, 103, 105, 110–13, 118n, 125, 234, 290n, 293–6, 300
- Conrad, K., 34, 46, 55
- Conway, M. A., 366
- Cooper, W. E., 172
- Corbett, J., 184n, 390n
- Corkin, S., 25, 358, 364n
- Cortese, C., 169n
- Coslett, H. B., 290, 291n, 292, 293, 295
- Costello, A. de L., 321, 322
- Coughlan, A. K., 99n, 106n, 108, 109f, 110f, 115, 278, 284f, 357, 376, 377
- Cowey, A., 19, 187
- Craik, F. I. M., 27, 44, 45n, 47n, 54
- Crick, F., 314n
- Critchley, M., 184
- Crompton, A., 124
- Crossman, E. R. F. W., 47
- Crovitz, H. F., 365
- Crowder, R. G., 4, 44, 45n, 47, 65
- Cunitz, A. R., 47, 53
- Cutler, A., 97, 170n
- Cutting, J., 370
- Dallas, M., 358, 360, 361n
- Damasio, A. R., 59, 184, 330, 332, 335, 376, 389–91, 399
- Damasio, H., 59, 184, 376, 390n
- Daniel, S. A., 360
- Davelaar, E., 82, 83f, 93
- Davidoff, J., 199
- Davies-Jones, A. B., 186
- Davis, C., 362, 364n
- Davis, K. R., 10
- Day, J. L., 113
- De Bleser, R., 11
- Deck, M. D. F., 395
- De Groot, A. D., 345
- De Haan, E. H. F., 390
- Dejerine, J., 9, 158, 214
- Dell, G. S., 358
- Deloche, G., 82, 272, 283n
- De Myer, W. C., 34
- Denes, G., 123n, 160, 292, 343
- Dennett, D. C., 401
- Dennis, M., 298
- De Recondo, J., 186n
- De Renzi, E., 6, 13, 14, 181, 183n, 186n, 188, 189, 192, 196, 198, 210–2, 315, 316, 323
- Derouesne, J., 78, 93n, 100n, 119, 121f, 122–4, 129, 132, 137, 139n, 140, 141n, 143, 155, 159, 210, 231, 235, 248, 331, 332, 335, 377, 378
- Desi, M., 82, 283
- Desimone, R., 311, 313
- Deutsch, D., 310
- Deutsch, J., 310
- Dixon, N. F., 389
- Dodd, B., 132
- Dorfman, D., 64
- Drachman, D. A., 48
- Drewe, E. A., 340, 341
- Dubois, J., 50, 58, 120
- Duncan, G. W., 10
- Duncan, J., 151, 310, 330, 335n
- Dunn, L. M., 90, 160f
- Durward, M., 308, 376
- Ebert, V., 367
- Eccles, J. C., 393
- Efron, R., 184
- Egeth, H., 320
- Ellis, A. W., 61n, 132, 135, 137, 140, 141n, 145–7, 150, 151, 154, 157, 169n, 221, 222, 262n, 263n, 321, 322f
- Ellis, H. D., 113
- Ericsson, K. A., 382, 399
- Ericksen, C. W., 389
- Eslinger, P. J., 184, 335, 376
- Estes, W. K., 46
- Evans, M. E., 348
- Faglioni, P., 211, 315, 316, 323
- Fahlman, S. E., 334
- Fay, D., 170n
- Fedio, P., 350n
- Feinstein, B., 382
- Feldman, M., 3
- Ferrari, P., 211
- Ferril, D., 340, 341
- Feutchwanger, E., 329
- Feyerabend, P., 32n
- Finger, S., 241
- Finkelstein, S., 10
- Flude, B. M., 321, 322f
- Fodor, J. A., 4, 18–20, 68, 248, 251, 258, 269, 270n, 271, 273, 286, 287n, 305, 401
- Forge, C., 333
- Fortin, D., 170
- Frankish, C., 65n
- Franklin, S., 164, 165f

456 *Author Index*

- Freud, S., 9, 11, 245, 246f, 247n, 248, 256n, 292  
 Friedman, A., 233n  
 Friedman, R. B., 74, 99n, 102n, 104, 105n  
 Friedrich, F. J., 42, 56, 58, 65n, 316, 318, 319, 321  
 Frith, U., 131, 132, 159  
 Frost, D., 383, 384  
 Funkenstein, H. H., 10  
 Funnell, E., 9, 101, 125n, 161, 162, 293–6, 300  
 Fuster, J. M., 330, 337n, 341–3, 350  
  
 Gainotti, G., 212n, 316  
 Galanter, E., 346  
 Galvin, J., 279  
 Gardner, H., 74, 283n  
 Garrett, M. F., 4, 107  
 Gazzaniga, M. S., 115, 308, 330, 391, 392, 395, 396  
 Geiselman, R. E., 54  
 Gelade, G., 310, 314n  
 Gelb, K., 9  
 Gerstmann, J., 34  
 Geschwind, N., 10, 14, 50, 57, 130, 174, 214, 241, 256, 391  
 Ghent, L., 314  
 Gil, R., 292, 293  
 Gipson, P., 169n, 360  
 Glanzer, M., 47, 53, 64, 65n  
 Gleason, C. A., 382n, 403n  
 Gleason, J. B., 177  
 Glenn, C., 42, 56, 58, 65n  
 Glucksberg, S., 291  
 Glushko, R. J., 85, 137  
 Godwin-Austin, R. B., 185, 187  
 Goldberg, M. E., 311  
 Goldblum, M. C., 84, 89, 105n, 110n, 159, 164, 199  
 Goldstein, K., 9, 50, 330  
 Goodglass, H., 12, 15, 30, 50, 54, 102, 173–7, 179–81, 212, 279, 297, 301  
 Goodman, R. A., 133, 142, 143, 144n  
 Gonzalez-Rothi L., 138  
 Gopher, D., 232  
 Gordon, B., 249, 394n  
 Gosling, J. V. T., 299  
 Graf, P., 359, 367, 368  
 Grafman, J., 272, 335, 375  
 Graf-Radford, N. R., 184, 376  
 Grant, D. A., 340  
 Gray, W., 269, 276, 286  
 Green, D. W., 71, 81, 128  
 Green, E., 11, 50, 230n  
 Greenblatt, S. H., 70  
 Gregory, R. L., 4, 310n, 400  
 Groeger, J. A., 383n  
  
 Hammond, N. V., 106  
 Hanson, N., 12  
 Harlow, J. M., 329  
 Hart, K. J., 102, 299, 301, 302n  
 Harwood, J. R., 358  
 Hasher, L., 353  
 Hatfield, F. M., 133, 134n  
 Head, H., 8, 9, 11, 12, 13  
 Heard, P., 310n  
 Healy, A. F., 46, 64  
 Hebb, D. O., 3, 252; 329, 330  
 Hebel, N., 369n  
 Hecaen, H., 6, 14, 50, 58, 70, 73, 76, 130, 183n, 184, 187, 198, 199, 297, 330, 342, 374  
 Heilman, K. M., 6, 61n, 78n, 133, 135, 138, 154, 294n, 315n, 316, 354  
 Heimbürger, R. F., 34  
 Held, R., 383, 384  
 Henderson, L., 4, 127, 128, 138n  
 Henschen, S. E., 10, 11  
 Herrman, D. J., 358  
 Hier, D. B., 140  
 Hillyard, S. A., 343  
 Hines, D., 113  
 Hinton, G. E., 97n, 193n, 249, 252, 263, 264n, 289, 308n, 326, 363  
 Hirst, W., 145, 170, 353n, 354n, 355, 368, 395n  
 Hitch, G., 44, 47n, 273  
 Hodder, I., 245, 249  
 Holender, D., 389  
 Holmes, G., 185, 186n, 187, 383  
 Holmes, J. M., 81  
 Holtzman, J. D., 395  
 Homa, D., 367  
 Hotopf, N., 146  
 Howard, D., 63, 90, 116n, 129n, 164, 165f, 172n, 173, 178, 181n, 279, 283–5, 288n, 290n, 293, 294n  
 Howes, D. H., 11, 283  
 Hull, C. L., 367n  
 Humphreys, G. W., 194, 195, 197, 260, 293–6, 300  
 Huppert, F. D., 355n  
 Hyde, M. R., 177  
 Illis, L. S., 299  
 Impey, L., 265n  
 Inhof, A. W., 318, 319  
 Irigaray, L., 274  
 Isserlin, M., 173  
  
 Jackson, H., 10  
 Jacoby, L. L., 358, 360, 372  
 Jakobson, R., 174  
 James, K. J., 297  
 James, M., 13, 188, 196, 197, 209, 213n, 329  
 James, W., 328, 356, 396, 403  
 Janota, I., 330  
 Jarvella, R. J., 64  
 Jeannerod, M., 384, 388  
 Jenkins, J. J., 12, 174  
 Job, R., 120, 129, 299  
 Johnson, D., 269, 276, 286  
 Johnson, M. K., 355  
 Johnson, S. C., 229  
 Johnson-Laird, P. N., 64, 286, 296, 308n, 401  
 Jolivet, R., 141n  
 Jonasson, J. T., 82, 83f, 93  
 Jonckheere, A. R., 206  
 Jones, G. V., 47n, 105, 106, 108, 126n, 142  
 Jouandet, M., 330  
  
 Kahn, D., 124, 315  
 Kahne, S., 309  
 Kahneman, D., 21, 23  
 Kaplan, B., 64, 176f  
 Kaplan, E., 12, 30, 50, 54, 102, 173, 179, 301, 340, 341, 344  
 Kapur, N., 152, 154, 376, 377  
 Kassell, N., 184, 376  
 Katz, J. J., 286, 287n  
 Kay, J., 74, 78, 79f, 84, 86, 92, 93, 95  
 Kean, M-L., 177  
 Keil, F. C., 288n  
 Kempley, S. T., 169n, 360  
 Kepner, S. D., 345  
 Kertesz, A., 10n, 59, 134, 138, 140, 141, 179, 211, 230n, 231  
 Keyser, A., 181  
 Kim, J. K., 355  
 Kimura, D., 339n  
 Kinsbourne, M., 15, 16, 34, 36, 50, 51, 70, 73, 76, 77, 156, 217, 234, 247, 248n, 321, 354, 356, 358, 367, 394n, 395  
 Kleiman, G. M., 71  
 Klein, B. von E., 217n, 297

*Author Index*

457

- Klein, R. M., 318, 401  
 Kleist, K., 10, 50, 292  
 Klosowska, D., 345  
 Knight, R. T., 343, 349, 350  
 Koller, J. J., 42, 58f  
 Kolk, H. H. J., 177, 181, 229, 230, 231  
 Kolodner, J. L., 372  
 Konorski, J., 343  
 Kosslyn, S. M., 323  
 Kosteljanetz, M., 70  
 Kremmin, H., 70, 73, 82, 84, 101n, 102n, 142, 144n, 174, 177, 294n  
 Kuhn, T. S., 12  
 Kussmaul, A., 9
- Laiacona, M., 209n  
 Lakatos, I., 208n  
 Lakoff, G., 19n  
 Lange, J., 34  
 Lapointe, S. G., 178  
 Lashley, K. S., 18, 248  
 Latour, B., 25n  
 Latto, R., 384, 386, 387  
 Lawicka, W., 343  
 Lawton, F. E., 152, 154n  
 Lazar, R. M., 341n  
 Lecours, A. R., 58, 140n, 173  
 Le Doux, J. E., 391, 395, 396  
 Lee, B. C. P., 395  
 Lee, C. L., 46  
 Lefkowitz, I., 309  
 Lenneberg, E. H., 173  
 Lesser, R., 6, 93, 95, 274n  
 Levin, J., 362, 364, 365, 366n  
 Levine, D. N., 77, 160, 344, 376  
 Levre, J. P., 292, 293  
 Levy, B. A., 59f, 60, 60n  
 Levy, J., 394n  
 Lewis, E. K., 347  
 Lewis, K., 170, 171f  
 Lewis, S. S., 71, 72, 127  
 Lezak, M. R., 41  
 Lhermitte, F., 10, 73, 100n, 140, 141n, 173, 180, 181, 198, 210, 292, 293, 331, 332, 335, 342, 355, 356, 375  
 Libet, B., 382n, 403n  
 Lichtheim, L., 26, 34, 50, 143n, 221  
 Lieberman, A., 376  
 Lieberman, K., 158, 324, 327  
 Liebermann, I., 340, 341  
 Liepmann, H., 9, 339n  
 Linebarger, M. C., 178
- Lissauer, H., 3, 9, 11, 13, 14, 188, 192, 200, 302  
 Lockhart, R. S., 27, 44, 54n  
 Lodge Patch, I. C., 50  
 Loftus, E. F., 271n, 286, 287, 367n  
 Logue, V., 42, 43n, 47f, 58f, 242, 308, 376  
 Low, A. A., 70  
 Luria, A. R., 10, 15, 131, 174, 245, 330, 333n, 346, 376, 401  
 Luzzatti, C., 209n, 323–5, 397  
 Lynch, G., 353  
 Lyon, D. R., 45
- McBride, K. E., 13  
 McCarthy, R. A., 86n, 89, 91, 92n, 93, 95, 124n, 129, 138n, 167, 168f, 283, 284f, 299–302, 305, 344  
 McClelland, J. L., 68, 95, 96n, 116, 158n, 252, 254n, 260, 308n, 313, 372  
 McCloskey, M., 272  
 McDermott, D., 308n, 333n, 334  
 McFarland, H. R., 170  
 McFie, J., 41, 51n, 316  
 McGaugh, J. L., 353n  
 McGill, J., 260, 312, 313, 391  
 McGlone, J., 209, 211  
 MacGregor, C. J., 83n  
 Maciejewski, C., 209n, 329  
 MacKay, D. M., 335, 393, 401  
 McKee, J., 184n, 390n  
 McKenna, P., 51n  
 McKoon, G., 358  
 McLaughlin, C., 19  
 MacLean, A., 106  
 McLeod, P. D., 19, 170, 171f  
 Madigan, S. A., 5, 44  
 Mafras Du Chatelier, A., 50, 58  
 Mair, W. G. P., 29, 364n, 369  
 Malamut, B., 358  
 Malmo, R. B., 343  
 Mandler, G., 358–61, 368, 371, 372, 401  
 Maratsos, M., 63  
 Marcel, A. J., 80, 84–6, 91, 100f, 101, 105, 123, 124n, 137, 291n, 382n, 383n, 389, 391, 401  
 Marcie, P., 6, 50, 58, 130  
 Margolin, D. I., 84, 142n, 147n, 153  
 Margrain, S. A., 55  
 Marie, P., 9, 10, 12
- Marin, O. S. M., 4, 15, 24n, 34, 42, 56, 58, 61, 62f, 65, 89, 102, 104–6, 108, 109f, 114, 126n, 128, 142, 173, 177, 178, 180, 248, 278n  
 Markowitsch, H. J., 369n  
 Marr, D., 18–22, 152, 188, 193–6, 198, 213, 219, 274, 276, 277f, 286, 291, 326  
 Marsden, C. D., 332  
 Marshall, J., 383, 385, 401  
 Marshall, J. C., 15, 20n, 30, 33, 70–2, 81, 82, 83n, 88, 98, 99, 100f, 103–6, 109f, 110, 112, 120, 127, 142n, 159, 248n, 270, 274n, 295  
 Marshall, M., 248n, 274n  
 Marslen-Wilson, W. D., 277, 362, 366n  
 Martin, A., 274, 278  
 Martin, M., 47n  
 Masterson, J., 72, 82, 83, 85, 86, 97  
 Masullo, C., 212n  
 Masure, M. C., 199  
 Mayes, A., 27, 28, 29, 354, 356, 359, 368n  
 Mazzucchi, A., 180, 181  
 Meadows, J. C., 184  
 Meininger, V., 100n, 292  
 Melcher, M. J., 233  
 Menn, L., 180, 181  
 Meregalli, S., 396, 397, 399  
 Merikle, P. M., 389, 391  
 Mervis, C., 269, 276, 286  
 Messerli, P., 211, 316  
 Mesulam, M. M., 316  
 Mettler, F. A., 329, 345  
 Meudell, P., 27, 28, 29, 354, 359, 368n  
 Meyer, D. E., 127n  
 Meyerson, R., 279  
 Miceli, G., 148, 149f, 150, 151, 180, 181, 211, 212, 304, 305f  
 Michel, F., 140, 164  
 Michenau, D., 292, 293  
 Milberg, W., 279, 283  
 Miliotis, P., 353n  
 Miller, D., 140, 141n, 147n, 260–2  
 Miller, G. A., 107, 286, 346  
 Milner, B., 13, 14, 25, 188, 212, 338, 340, 341, 349, 358, 375, 377  
 Minsky, M. L., 263n

458 *Author Index*

- Mishkin, M., 342, 358, 369n  
 Mohr, J. P., 10, 34, 140, 180n  
 Mollon, J. D., 184  
 Monsell, S., 161n, 169, 360  
 Moran, J., 311, 313  
 Moraschini, S., 211n, 212n  
 Morton, J., 7, 9, 15, 16f, 18,  
     23, 31, 32, 44, 57, 68,  
     73n, 91, 92, 96, 97, 104–  
     6, 110, 115n, 128n, 129,  
     136, 138, 148, 161, 164–  
     7, 169, 204, 213, 214,  
     262, 360, 401  
 Moscovitch, M., 29, 297, 354,  
     358, 362, 366n, 367  
 Mounin, G., 180, 181  
 Moutier, F., 7, 8, 10  
 Mozer, M. C., 252n, 312, 313  
 Murdock, B. B., Jr., 44, 45  
 Murray, D. J., 60  
 Murrell, G. A., 169n  
 Myerson, R., 174, 229  
  
 Nadel, L., 357  
 Naeser, M. A., 340, 341, 344  
 Nagel, T., 394  
 Navon, D., 232  
 Neary, D., 27, 28, 354, 356,  
     368n  
 Neisser, U., 5, 145, 170, 395n  
 Nelson, H. E., 51n, 232, 340,  
     341, 347n  
 Neville, H. J., 343  
 Newcombe, F., 3, 15, 70, 71,  
     81, 88, 98, 99, 100f, 103–  
     6, 110, 112, 120, 127,  
     142n, 159, 160f, 183n,  
     184, 199, 241, 248n, 294,  
     295, 390  
 Newell, A., 6, 307, 333n, 339  
 Nielsen, J. M., 10, 113, 297  
 Nimmo-Smith, I., 19  
 Nishihara, H. K., 193, 194,  
     198  
 Nixon, W. L. B., 308, 376  
 Nolan, K. A., 99n, 105, 106,  
     109, 110, 111, 119, 148,  
     159  
 Norman, D. A., 36n, 41n, 44,  
     47, 52, 54, 232, 286, 328,  
     332, 333n, 334, 335, 373,  
     374n, 375, 378, 379  
  
 Obler, L. K., 212n  
 O'Connell, A., 51n, 232, 347n  
 O'Connor, M., 363, 365  
 Ogden, J. A., 299, 323  
 Ojemann, G. A., 43  
 O'Keefe, J., 357, 401  
  
 Orchard-Lisle, V., 283, 284f  
 Orgass, B., 307  
 Ortony, A., 307  
 Oscar-Berman, M., 29  
 O'Shea, T., 271  
 Oxbury, S., 362, 364n  
  
 Paillard, J., 332  
 Paivio, A., 291  
 Papert, S., 263  
 Parisi, D., 59, 181  
 Parkin, A. J., 93, 94n, 353n  
 Pasik, P., 387  
 Pasik, T., 387  
 Patterson, K. E., 30–2, 54, 72,  
     74, 78, 79f, 80, 82, 83f,  
     84, 86, 92, 96n, 97–99,  
     100f, 101, 105, 108,  
     109n, 110, 113–15, 119,  
     121, 122, 125n, 126, 129,  
     133, 134n, 138n, 140,  
     142, 144n, 161  
 Pearl, D. K., 382n, 403n  
 Pearlstone, Z., 278  
 Perani, D., 316, 323–5, 397  
 Perenin, M. T., 384, 388  
 Perlman, M. B., 99n, 102n,  
     104, 105n  
 Pessin, M. S., 10  
 Peters, A. M., 112  
 Petrides, M., 337, 338, 375  
 Pfeifer, B., 329  
 Phelps, E. A., 355  
 Philipchalk, R., 56  
 Phillips, W. A., 55n  
 Phipps, J. B., 59, 179f  
 Piaget, J., 308n  
 Pick, A., 230  
 Pickering, A., 29  
 Picton, T. W., 343  
 Piercy, M., 14, 308, 316,  
     355n, 359, 376  
 Pillon, B., 198  
 Pizzamiglio, L., 61  
 Pluchon, C., 292, 293  
 Poeck, K., 10, 34, 180, 292  
 Polden, P. G., 184  
 Pollock, M., 315  
 Polson, M. C., 233n  
 Popovics, A., 160  
 Poppel, E., 383, 384  
 Poppelreuter, W., 316  
 Porteus, S. D., 345  
 Posner, M. I., 19, 21, 23, 24,  
     310, 316–9, 320n, 321,  
     327, 401  
 Postman, L., 4  
 Potter, M. C., 291  
  
 Pratt, R. T. C., 42, 43n, 47f,  
     58f, 242, 308, 376  
 Pribram, K. H., 346  
 Price, D., 50, 57  
 Prior, M., 72, 82, 83, 85, 86,  
     97  
 Puccetti, R., 394, 395  
 Putnam, H., 20n, 381  
 Pylyshyn, Z. W., 400  
  
 Quadfasel, F. A., 174, 176,  
     179  
 Quillian, M. R., 286  
 Quinlan, P. T., 260  
  
 Radford, A., 18  
 Rafal, R. D., 316, 320n  
 Ramier, A. M., 199  
 Ratcliff, G., 3, 183n, 184, 186,  
     199, 241, 294, 295  
 Ratliff, R., 358  
 Reason, J. T., 328  
 Reches, A., 77  
 Reeves, A., 70n  
 Regli, F., 292  
 Reiff, R., 356  
 Reiger, C., 286–9  
 Reitan, R. M., 34  
 Reynolds, P., 170  
 Rhoads, D., 367n  
 Ribaucourt-Ducarne, B. De.,  
     73  
 Ribedeau-Dumas, J. L. C.,  
     186n  
 Ribot, T., 361  
 Richter, R., 211  
 Riddoch, G., 185  
 Riddoch, M. J., 72, 82, 83, 85,  
     86, 97, 194, 195, 197,  
     260, 293–6, 300, 383  
 Rips, L. J., 286  
 Risse, C., 355  
 Robbins, T. W., 334  
 Roberts, R., 362, 364n  
 Robinson, D. L., 311  
 Robinson, J. A., 365  
 Rochford, G., 230  
 Rodriguez, J., 211  
 Roeltgen, D. P., 133, 135,  
     138, 142, 143, 154n  
 Rogez, R., 292, 293  
 Romani, C., 148, 149f, 150  
 Rondot, P., 186n  
 Rosch, E., 269, 276, 286  
 Rose, C., 309  
 Rosenberg, C. R., 125n  
 Rosenfield, D. B., 156n  
 Rosenthal, V., 20n, 217, 249  
 Ross, B. H., 358

*Author Index*

459

- Ross Russell, R. W., 187  
 Rosvold, H. E., 342  
 Rothi, L. G., 78n  
 Rouillon, F., 58  
 Routh, D. A., 45n  
 Rowe, E. J., 56  
 Rozin, P., 358  
 Rubens, A. B., 3, 183n, 390n  
 Rubenstein, H., 71, 72, 127  
 Rubenstein, M. A., 71, 72, 127  
 Ruddock, K. H., 384, 386  
 Ruddy, M. G., 127n  
 Rumelhart, D. E., 68, 95, 96n, 158, 252, 254n, 256, 260, 263n, 286, 289, 307, 308n, 372  
 Ryan, J., 46  
 Rylander, G., 13, 15, 329, 343  
  
 Sachs, J. S., 64  
 Sadowski, C., 70n  
 Saffran, E. M., 4n, 15, 34, 42, 53, 58f, 61–3, 65, 74, 83n, 102, 104–6, 108, 109f, 112, 114–16, 126n, 128, 129, 142, 172n, 173, 177, 178, 180, 209, 248, 250n, 274, 276, 277f, 278n, 290–3, 295, 391  
 Sahakian, B., 334n  
 Saillant, B., 100n, 119, 292, 293n  
 Salame, P., 55, 60  
 Salmaso, D., 343  
 Sanders, H. I., 361, 364–7, 383, 385  
 Sandson, J., 342  
 Sartori, G., 120, 129n, 217n, 221, 223, 226n, 237n, 255n, 299  
 Sasanuma, S., 69n  
 Saunders, R., 70n  
 Scarborough, D. L., 169n  
 Scarborough, H. S., 169n  
 Schacter, D. L., 360n, 361n, 367, 368  
 Schank, R. C., 307, 332, 370, 372  
 Scheerer, M., 356  
 Schenkenberg, T., 70  
 Schiffman, H., 365  
 Schmidt, R. A., 307  
 Schneider, W., 309  
 Scholes, R. J., 61n  
 Schuell, H., 12, 70, 174  
 Schuri, U., 369  
 Schurr, P. H., 330  
 Schvaneveldt, R. W., 127n  
 Schwartz, B., 20n, 273  
 Schwartz, M. F., 4n, 15, 20n, 34, 89, 102, 105, 109f, 114, 126n, 128, 142, 144, 173, 177, 178, 180, 248, 273, 274, 276, 277f, 278n, 291  
 Scotti, G., 13, 14, 188, 189, 192, 196, 210, 315, 316, 323  
 Scoville, W. B., 25  
 Segarra, J. M., 50, 57, 199  
 Seidenberg, M. S., 94, 97n, 133  
 Sejnowski, T. J., 96, 97f, 125n, 249, 263, 264n, 289n  
 Semenza, C., 123n, 160, 292, 299  
 Semmes, J., 350n  
 Seron, X., 272, 331  
 Sevush, S., 135  
 Seymour, P. H. K., 83n, 193, 291  
 Shafer, S., 211  
 Shallice, T., 20n, 26, 42–7, 52n, 54–9, 64n, 67, 71–4, 81–3, 86, 89, 92n, 93, 95, 98–102n, 103–5, 106n, 108, 109f, 110, 115, 119, 121f, 124n, 128, 129, 134, 137, 138n, 140n, 159, 170, 171f, 209, 214, 217n, 222, 241, 248, 257, 260, 271n, 280, 282, 284f, 290, 291n, 293, 294n, 298–302, 311–13, 328n, 332–5, 344, 347, 348, 377, 378, 381n, 391, 401  
 Shapiro, W. R., 341n  
 Shepherd, J. W., 113  
 Sheppard, A., 211  
 Sheremata, W. A., 50, 57  
 Shewell, C., 140  
 Shiffrin, R. M., 54, 67, 309, 401  
 Shimamura, A. P., 358, 360n, 361n, 363, 364n, 367  
 Shrier, R., 279  
 Shulman, H. G., 54n  
 Shutta, H. S., 186  
 Signoret, J-L., 10, 198, 210, 331, 332, 355, 356, 375  
 Silverberg, R., 77  
 Silveri, M. C., 212n, 304, 305f  
 Simon, H. A., 18, 307, 333n, 347, 382, 399  
 Sin, G., 140, 141n  
 Slater, P. C., 362  
 Small, S., 287  
 Smith, A., 329  
 Smith, E. E., 94, 286  
 Smith, K. U., 308  
 Smith, M. L., 338, 349, 375  
 Smith, P. T., 85  
 Smith, Y. M., 384, 386, 387  
 Smolensky, P., 308n  
 Soeldner, C., 350  
 Souther, J., 313  
 Speedie, L. J., 78n  
 Speelman, R. G., 45  
 Spelke, E., 145, 170, 395n  
 Sperling, G., 45, 55, 60, 61n, 233n  
 Sperry, R. W., 308, 383, 393, 394n  
 Spinnler, H., 13, 14, 42, 45, 47f, 58f, 188, 189, 192, 196, 198, 210  
 Spoehr, K. T., 94  
 Spreen, P., 292  
 Squire, L. R., 354, 355, 358, 359, 361n, 362, 364, 366n, 375, 376  
 Stark, H. A., 360n, 361n  
 Stein, D. G., 241  
 Stemberger, J. P., 260  
 Stengel, E., 50  
 Sternberg, S., 19n, 260n  
 Stevenson, R., 64  
 Strawson, P. F., 382  
 Strub, R. L., 50, 53  
 Stuss, D. T., 6, 337n, 340, 341, 344, 376  
 Sunderland, A., 324  
 Sussman, G. J., 334, 350, 351, 371  
 Sutherland, N. S., 194, 195  
 Syper, G. W., 354  
  
 Taborelli, A., 130, 131, 140  
 Talland, G. A., 25, 48  
 Tanenhaus, M. K., 94  
 Taylor, A. M., 188–94, 196, 198, 213n, 275, 295, 299  
 Te Linde, J., 291  
 Temple, C. M., 83n  
 Teuber, H. L., 16, 25, 34, 36, 234, 247, 315, 340n, 350n, 362, 366n, 383  
 Thomas, N., 64  
 Timberlake, W. H., 174, 176, 179  
 Tissot, R., 180, 181, 211, 316  
 Toullat, G., 292, 293  
 Tranel, E., 389–91, 399  
 Treisman, A., 310, 313, 314n, 327

460 *Author Index*

- Trevarthen, C. B., 308, 394n  
 Tsetkova, L. S., 330  
 Tucker, D. M., 294  
 Tulving, E., 5, 21, 44, 54,  
   278, 356–8, 360, 361,  
   367, 369, 372, 373  
 Tyler, L. K., 277  
 Tzortzis, C., 50, 52n, 53, 56,  
   58  
  
 Underwood, G., 94  
  
 Valenstein, E., 6, 294n, 315n,  
   329n  
 Vallar, G., 42, 45, 46, 47f, 55,  
   58f, 61, 62, 64, 66, 397,  
   398, 403  
 Van Allen, M. W., 292  
 Van Essen, D. C., 19, 187  
 Van Grunsven, M. J. F., 181,  
   229, 230f, 231  
 Van Hoesen, G. W., 336  
 Vanier, M., 63n  
 Venezky, R. L., 93  
 Victor, M., 29  
 Vignolo, L. A., 130, 131, 140,  
   181  
 Villa, G., 148–51, 212, 304,  
   305f  
 Vincent, T., 70n  
 Vines, R., 47n, 55, 56  
 Vogel, P. J., 391  
 Volpe, B. T., 355  
 Von Cramon, D. Y., 369n  
 Von Kayserlingk, D. G., 10  
 Von Monakow, C., 9  
 Von Stockert, T. R., 174, 177  
  
 Walker, J. A., 316, 321  
 Walsh, K. W., 6, 209, 340,  
   345, 354n  
 Wanner, E., 63  
  
 Warrington, E. K., 5, 6, 25–8,  
   34, 41–7, 52n, 54–9, 70,  
   72–4, 76, 77, 82, 83f, 86,  
   88, 89, 91, 93, 95, 98n,  
   100–2n, 103–5, 106n,  
   108, 109f, 110, 117,  
   118n, 119, 121f, 124n,  
   128n, 129, 133, 140n,  
   141, 142n, 143, 152, 156,  
   159, 183n, 186–94, 196–  
   8, 209n, 213n, 214, 238,  
   242, 271, 272, 274, 275,  
   278, 280, 282, 283, 284f,  
   290n, 298, 299, 300–2,  
   305, 311, 321, 322, 329,  
   347, 354, 356–8, 359–61,  
   364–7, 369, 371, 372,  
   377, 378, 383–7  
 Waterfield, V. A., 384, 386n  
 Waters, G. S., 94  
 Watkins, M. J., 45n, 54  
 Watkins, O. C., 45n  
 Watson, F. L., 347  
 Watson, R. J., 294n, 316  
 Watt, R., 310n, 314n  
 Waugh, N. C., 41n, 44, 47,  
   52, 54  
 Wechsler, D., 30, 361  
 Weigl, E., 76, 274n, 282  
 Weinberger, N. M., 353  
 Weinstein, S., 350  
 Weir, W. S., 344  
 Weisenberg, T., 13  
 Weiskrantz, L., 16, 25, 26, 28,  
   234, 354–6, 358–61, 364,  
   369, 371, 372, 383–8  
 Welsh, A., 60  
 Wernicke, C., 9, 12, 33, 50,  
   247n  
 Wetzell, C. D., 354  
 Wickelgren, W. A., 15, 46,  
   358  
  
 Wilkins, A. J., 297, 344  
 Williams, M. D., 373, 374  
 Williams, R. J., 263n  
 Wilson, B., 199, 376  
 Wilson, D. H., 395  
 Wilson, H. R., 310  
 Wing, A. M., 146, 148n, 150  
 Winnick, W. A., 360  
 Winocur, G., 354, 362, 364n  
 Witherspoon, D., 360, 361n  
 Wolgar, S., 25  
 Wolpert, I., 34, 75–6, 77n  
 Wood, C. C., 248, 249, 253–6  
 Wood, F., 356, 358, 367  
 Woods, D. L., 343  
 Woods, R. T., 359  
 Woodward, J. A., 54  
 Wright, E. W., 382n, 403n  
 Wurtz, R. H., 311  
  
 Yamada, T., 184n, 390n  
 Yamadori, A., 283n, 297, 302  
 Young, A. W., 321, 322f, 390  
 Young, R., 271  
 Young, R. M., 7  
  
 Zacks, R. T., 353  
 Zaidel, D. W., 393  
 Zaidel, E., 112, 113, 115, 392,  
   393  
 Zangwill, O. L., 48, 230, 316,  
   321  
 Zanobia, E., 42, 45, 47f, 58f  
 Zeki, S. M., 19, 187  
 Zettin, M., 299n  
 Zihl, J., 384, 387  
 Zipser, D., 256, 260n  
 Zola-Morgan, S., 366n, 375  
 Zurif, E. B., 61n, 74, 172,  
   174, 177, 178, 181, 229,  
   279

# Index of Patients Cited

*Note:* Patients with the same initials are differentiated by digits

|                                                                                |                                                    |                                                               |
|--------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------|
| AA, 305f                                                                       | FM, 311–12, 313f                                   | JP, 156, 161                                                  |
| AB1, 82n, 83                                                                   | FRA, 199                                           | JS, 160–3                                                     |
| AB2, 274–7, 283–4, 286,<br>291–2, 296n, 298, 357                               | FS, 397–9, 403                                     | JT, 50–2                                                      |
| AF, 290                                                                        | FV, 148–52, 156n, 162                              | JW, 392                                                       |
| AM, 121–2, 125, 126n                                                           | G1, 331                                            | K, 229                                                        |
| AR, 103, 280–6, 290–1n                                                         | G2, 386                                            | KC1, 74, 77–8                                                 |
| AT, 70n                                                                        | GA, 140                                            | KC2, 230                                                      |
|                                                                                | GE, 144n                                           | KF, 41, 45–7, 50–2, 55–6,<br>58f, 61, 100f, 101, 108,<br>110f |
| B, 229                                                                         | GJ, 293                                            | KM, 83f                                                       |
| BB, 83f                                                                        | GOS, 141–2, 156                                    | KT, 89–90, 92–3, 97n, 133,<br>137, 259                        |
| BD, 102                                                                        | GR, 99, 100, 101–3, 106,<br>108–10, 112, 159, 160f |                                                               |
| BL, 106, 109, 277f                                                             | GRN, 121f, 126                                     | L, 229                                                        |
| BRA, 187                                                                       |                                                    | La, 229                                                       |
| BY1, 74, 75, 95n, 362, 364n                                                    | H, 229                                             | LB1, 121f, 124–5                                              |
| BY2, 362, 364n                                                                 | HJ, 369                                            | LB2, 148–52                                                   |
|                                                                                | HJA, 194–6                                         | LB3, 115, 391–4                                               |
| C2, 52                                                                         | HM, 362, 364n, 366                                 | LEC, 102n                                                     |
| C3, 52                                                                         | HT, 277f                                           | LM, 185                                                       |
| CAV, 117–9, 240n, 284f,<br>286, 298                                            | HTR, 89–90, 93–5, 228                              |                                                               |
| CB, 293, 295–6                                                                 |                                                    | M1, 122n                                                      |
| CDA, 304n, 305f                                                                | IDT, 152–4                                         | M2, 144n                                                      |
| CH, 74, 77–8                                                                   | IGR, 151                                           | M3, 229                                                       |
| CR, 274n                                                                       | IL, 42–4, 58, 62                                   | MC, 42–4, 52, 58f, 61–2, 74                                   |
|                                                                                |                                                    | MF, 122, 123f                                                 |
| DB, 383–8                                                                      | JA, 122, 123f                                      | MH, 134–5                                                     |
| DE, 83f, 100f, 101, 107, 109f,<br>115, 121f                                    | JAF, 184–5                                         | MK, 164–7, 168n                                               |
| DEL, 199–200                                                                   | JB, 42–3, 47, 51–2, 56, 58,<br>61, 65, 66, 242     | ML, 75, 77, 78n, 290                                          |
| DRC, 272–3                                                                     | JBR, 284f, 298f                                    | ML2, 304n, 305n                                               |
|                                                                                | JC1, 81, 85                                        | MP, 89, 90, 91, 128                                           |
| EA, 42–4, 56, 58f, 61, 66                                                      | JC2, 141, 142n, 159                                | MW1, 74, 133                                                  |
| EA2, 369                                                                       | JC3, 290                                           | MW2, 133                                                      |
| EE, 83f, 137n                                                                  | JCB, 283n                                          |                                                               |
| EM, 82n, 83f, 88, 92–3, 95,<br>274–8, 282, 283, 286,<br>291–2, 296n, 298f, 357 | JCU, 283–6                                         | NA, 362, 364n, 366n                                           |
| EVR, 335–6                                                                     | JDC, 74, 75, 80                                    | NG, 115, 391–4                                                |
|                                                                                | JF, 293                                            |                                                               |
| FC, 299                                                                        | JG, 133, 134                                       | ORF, 167–8, 169n, 324–7                                       |
| FD, 109                                                                        | JL, 70n                                            |                                                               |
|                                                                                | JO, 50, 51                                         | PR, 134–5, 142, 151, 157,<br>159, 241                         |
|                                                                                | JOH, 322–3, 327                                    |                                                               |

462      *Index of Patients Cited*

|                              |                          |                           |
|------------------------------|--------------------------|---------------------------|
| PS, 106, 108, 110f, 240n     | 123f, 125, 126n, 132–3,  | TL, 290                   |
| PS2, 392, 395                | 155–6, 159, 292–3        | TP, 74, 75, 76f, 78       |
| PT1, 95n                     | RH1–4, 195, 196f         |                           |
| PT2, 133–4                   | RJ, 376–7                |                           |
| PT3, 311, 312f, 313          | ROG, 83f, 86             | VB, 321–2                 |
| PV, 42–8, 55, 58, 61–4, 66   | RW, 377–8                | VER, 114, 283–5, 301–2    |
| PW, 83f, 100f, 101–2, 105,   |                          | VP, 392                   |
| 109f, 110, 115, 121f,        | S, 331                   | VS, 104, 108, 109f, 110,  |
| 240n, 285                    | SA1, 143                 | 121f, 178, 277f           |
|                              | SA2, 143                 |                           |
|                              | SA4, 143                 | WH, 42–4, 47, 58f, 61     |
| R, 164–6, 168n               | SBY, 284f, 298           | WLP, 89–91, 95, 128, 142, |
| RAN, 167–8, 169n             | SS, 363, 364n, 365, 366n | 144, 173, 259, 274–7      |
| RAV, 74–7, 80, 95n           | ST, 81, 85               | WPR, 144n                 |
| RB, 153–4                    |                          |                           |
| RD, 261, 263n                | THR, 187                 |                           |
| RG, 100n, 119–20, 121f, 122, | TI, 42–4, 58f, 62–3      | YOT, 283–6, 300–3         |