INDEX

Abt, Helmut, 162
Abel, Othenio, 81
Abstract: Compton’s writing of, 220-22; use of in reading, 241; in psychology, 262-63, 272-74
Academia del Cimento, 130
Academie des Sciences, 130, 139
Accounts and accountability, 60-62, 145, 184, 190, 191, 198, 253, 305-13, 328-30
Achard, Franz Karl, 81
Add, changing definition of, 29
Acknowledgments within articles, 33, 175, 176
Active constraints, 61, 222, 312-13.
   See also Passive constraints
Adanson, Michel, 81
Aepinus, Franz, 81
Agassi, Joseph, 4n3
Agonistic structure of scientific communication, 82, 130, 147, 155-56, 191, 200, 316, 319, 321, 323
Aitken, Robert, 81
Alzate y. Ramirez, Jose Antonio, 81
American Journal of Psychology, 263-64, 265, 268, 273
American Physical Society, 162
American physics, compared to European, 157, 162
American Political Science Review, 280-88
American Psychological Association Publication Manual, 17, 253-63, 275, 316; prior versions, 261-63, 271; prescriptiveness, 259-63, 271
Ampere, Andre, 81
Anomalous findings, 141
Anschuetz, Richard, 81
Anthropology, 21, 279-80
Antoniadi, Eugen, 81
Apparatus, passive constraints on, 311
Appleton, Edward, 81
Arbitrariness of sign, 296
Aristotle, 188-256
Audience: role of in texts, 24-25, 46, 325, 326; in Watson and Crick, 28, 32-33; in Merton, 34, 36; in Hartman, 39, 41, 44; in Newton, 86, 37, 99, 124-25; differentiation of in early journals, 131-33, 135-36; in Compton 214-19; in psychology, 264-65, 268, 270, 274-75
Austin, J. L., 299
Author role of, 131-35. See also Role conflicts
Authorial presence (persona), 24-26, 46-47, 140-41, 325-26, 328; in Watson and Crick, 28, 30, 31; in Merton, 34, 36, 39; in Hartman, 39-40, 44-45; in Newton, 123, 124-25; in Philosophical Transactions, 133-36; in Compton, 214; in psychology, 268, 270, 272-73; in political science, 287
Bacon, Francis, 15-16, 91-92, 138, 140, 293
Baconianism, 91-92, 293, 326
Baldauf, R. B., 18n1
Baldwin, J. M., 263
Balmer, Johann Jakob, 161
Barkla, C. G., 194, 196
Barnes, Barry, 129n1, 294
Barnes, Sherman, 138n8
Barrow, Isaac, 85, 86, 88
Bechler, Zev, 95n 15
Behaviorism in psychology, 263, 268, 323
Behaviorist rhetoric, 259, 263, 269-75
Behn, Aphra, 134
Bellone, Enrico, 293
Ben-David, Joseph, 149n 13
Bible, 20, 21
Biddle, Bruce, 136
Bitzer, Lloyd, 8n 20
Bizzell, Patricia, 322n2
Black boxes. See Reading
Bleich, David, 236
Bloor, David, 294
Bohr, Nils, 158, 179, 182, 206-7
Books as scientific communication medium, 80-82, 158
Boring, Edwin, 273
Boyle, Robert, 49, 76, 80, 81, 85, 88, 134
Bragg, Lawrence, 194, 196-97, 198
Brannigan, Augustine, 35n15
Bromley Report, 157n6, 162, 281
Brouncker, Lord, 105n19
Brown, Richard, 11n12
Bruce, Bertram, 236
Bruner, Jerome, 304
Butler, Samuel, 134

Callon, Michel, 190n 1
Cambridge University: Newton at, 85, 86
Cattell, J. M., 263
Cavallo, Tiberius, 74
Chomsky Noam, 297, 299, 300
Chubin, Darryl, 164n8
Citations and References, 25, 319; in Physical Review, 164-67; style in psychology, 262-63, 274; in American Political Science Review, 282-83; citation studies, 235-36
Clifford, J., 280
Closed text, 83, 124
Codification, 25, 31, 46, 126, 274, 316, 319
Cognitivist influence on psychological style, 275
Cohen, I. B., 82n3, 125, 127n25
Cohen, Ralph, 7n8
Cole, Jonathan, 141, 146
Collins, Harry, 4n2 23, 129n1, 141, 156n3, 174, 294
Collins, Randall, 129n1
Composition, 3n1
Compton, Arthur Holly, 17, 91, 191-99, 203, 282, 284, 314, 316, 326, 327; "Quantum Theory," 192, 197-99, 203-4; "Measurement of Beta Rays," 192-93, 201, 205-24; "Secondary Radiations," 199; follow-up publications, 203-7; research program, 194-96; theory change, 199, 203-4; use of cloud chamber experiments, 204-7; notebooks, 207-22; corrections to data, 208-11, 219; writing-up of article, 209-10; revisions of text, 210-22
Compton effect: defined, 191-92
Conclusions section, 175, 243, 267
Conklin, E., 267
Conklin, V., 267
Consigny, Scott, 8n10
Constraints: empirical, 182, 192, 194-95, 200, 201, 205-6, 208; from research program, 194-99. See also Active and passive constraints; Empirical experience
Construction: of theory, 178-79, 180, 181; of linguistic representation of objects, 215; of textual object, 219-22, 224; of reading, 235-37; of literature through reading, 250-53; of scientific language, 313
Constructivism, 129, 148-49 294-95
Contributor, See Author
Cooper, Charles, 322n2
Cornell University, 162
Correspondence theory of reference, 295, 298
Correspondent, role of, 131-32
Coser, Rose, 148n11
Cozzens, Susan, 25n6, 157n4, 164n8, 203, 235, 283
Crane, Diana, 22, 145
Crick, Frances. See Watson, James
Critic, role of, 135-36
Criticism, 138-34, 147
Index

Crosland, Maurice, 136
Crucial experiment. See Newton, Isaac
Crystal, David, 155
Cultural forms, history of, 314-16
Dallenbach, K. M., 267
Darwin, Charles, 6
Dear, Peter, 5n4, 123, 140
de Broglie, Louis, 158
Debye, Peter, 197-98
Deconinck, 320
Deixis, 299
Derrida, Jacques, 10, 60n2
Desaguliers, Jean T., 67, 70, 72, 74, 76, 80
Descartes, Rene, 85, 88
DiMaggio, Paul, 7n8
Discovery account, 78, 90-95
Discussion sections, 175
Documentation. See Citations
Dolezel, Frederic, 16
Dolland, John, 95n15
Dooley, Lucille, 268
Dubrow, Heather, 7n8
Eastwood, B., 5n4
Eco, Umberto, 236
Economics, rhetoric of, 279
Editor: role and role conflicts of, 132-33, 136-37; impact on article length, 163. See also Oldenburg, Henry
Editorial board, 137
Einstein, Albert, 124, 158, 194
Eisenstein, Elizabeth, 5n4, 128
Electrodynamic theory Compton’s commitment to, 194-95, 197-99
Empirical experience: as authority, 147; as constraint and resource, 188, 312-13, 327; embedded in language use, 188, 190-91, 309-11, 321
Empiricism, 149, 295, 323; cult of, 268
Ennis, Michael, 202
Epistemic level, Compton’s control of, 214-15
Epistemology 26-27, 174, 177-81, 323-24
Equations in text, 173
Ethnographies, rhetorical complexity of, 279-80
Ethnomethodology, 21, 299
Ethos, 140
Everyday experience in political science, 285-86
Experimental subjects in psychology 260, 266, 267, 270, 271. See also Introspection
Experiments: reports of 22, 59, 202; changing definition of, 65-68; controls, 71; series of, 76-77, 274, 282; demonstration, 98
Extending, 211-12
Fabian, J., 280
Fact, Fleck’s definition of, 61
Facticity, persuasion of, 140
Fahnestock, Jeanne, 322n3
Faigley, Lester, 322n2
Fine-tuning, 212-13
Finocchiaro, M. A., 4n3
First person: in Watson and Crick, 30, 31; in Newton, 91, 96; in Compton, 216-17; in psychology, 245, 269; in political science, 287
Firth, J. R., 297, 300
Fleck, Ludwik, 4n3, 61, 108, 200, 222, 296, 312-13
Footnotes. See Citations
Foucault, Michel, 10, 60n2
Fowler, Alistair, 7n8
Fowlkes, Diane, 281, 283-88
Fox, Theodore, 138n8
Fraunhofer lines, 160
Freud, Sigmund, 270
Friedrich, Max, 265
Carfinkel, Harold, 293
Garvey, William, 59n1
Gascoines, John, 117-18
Gatekeeping, 136-38, 141, 144n10
Geertz, Clifford, 280
Index

Genre: theory and definition of, 6-8, 62-63, 319-20; experimental report as a, 6-8, 59-60, 62-63, 77-78, 260, 315-17
Geometrical demonstrations. See Mathematics
George, S. S., 267
Gieryn, Tom, 294
Gilbert, Nigel, 25n6, 156n3, 156n3, 202
Goffman, Erving, 148n11
Goody, Jack, 5n4, 128
Gopnik, Myrna, 155, 298
Graff, Harvey, 128
Graphic features, charts, and illustrations: in Watson and Crick, 32; in Philosophical Transactions, 71-72; in Newton, 85, 94n14, 122; in Physical Review, 172-74, 177; in Compton, 198, 208
Greenstein, Fred, 281
Group formation and integration, 138-41
Guerlac, Henry, 118n23
Gumperz, John, 298
Gusfield, Joseph, 25n8, 156n3
Hack, 12
Hacking, Ian, 4n3, 7n9, 123, 140
Hahn, Roger, 139
Hall, Captain, 76
Hall, G. Stanley, 263, 264, 265
Hall, Marie Boas, 66n3, 130, 147
Hall, Rupert, 130n3
Halliday, Michael, 300-301
Halloran, S. Michael, 322n3
Handel, Warren, 149
Hanson, N. R., 144, 294
Hartman, Geoffrey: discussion of, 27, 39-48, 61; text excerpt, 54-55
Hauksbee, Francis, 67, 72, 80
Havelock, Eric, 5n4, 128
Hayes, Louis D., 281
Hemingway, Ernest, 36
Henry, William, 68, 71, 77
Henshaw, Thomas, 69
Herrington, Anne, 322n2
Herschel, William, 67n4, 71, 72, 73, 76, 79
Hewson, William, 77
Hill, John, 137
Historical analysis of language use, 313-15
History, 4, 10
Hjelmslev, Louis, 297
Hogben, Lancelot, 155
Holland, Norman, 236
Holmes, Frederic, 5n4
Holub, R. C., 236
Hooke, Robert, 100-101, 104-9, 111, 123, 134
Homer, Winifred B., 332n1
Huddleston, R. D., 155, 298
Hudson, R. A., 298
Hunter, Michael, 133, 135, 136
Huygens, Christiaan, 66, 107, 108, 110-16, 123
Hypothesis: testing, 7n9, 66-68, 281; placement in article in psychology, 273-74
Hyslop, James, 265
Incremental encyclopedism in experimental psychology, 261, 273-75
Institutionalization of genres and style, 316, 319
Integrative apparatus, 126-27, 157. See also Citations; Intertextuality; Theory
Interdisciplinarity of this study 3-6
Intersubjectivity in language use 107n21, 251-52, 258, 303-11, 314-16
Intertextuality 236, 316, 324-25. See also Citations; Theory
Introspection in early experimental psychology, 265, 267, 270
Isaak, Alan C., 281
Iser, Wolf gang, 236
Jameson, Kathleen, 8n10
Jastrow, Joseph, 266
Jennings, Edward T., 281, 283-88
Johnston, P., 236

Henningson, Thomas, 69
Index

Johnstone, James, 73
Journal des Scavans, 129n2
Journal of Experimental Psychology, 267, 269
Judson, Horace F., 28n11
Kayser, H. J. G., 161
Kennedy, George, 322n1
Kevles, Daniel, 157
Key, V. O., 283, 285
Kinneavy, James, 24
Kirchoff, Gustav Robert, 161
Kittredge, Richard, 155, 297
Knorr (Knorr-Cetina), Karin, 23, 25n8, 129n1, 156n3, 200, 209, 294, 298
Knowledge, textual form and, 18-24, 47
Kozulin, Alex, 302
Kristeva, Julia, 236
Kronick, David A., 59n1, 63, 80, 81
Kuhn, Thomas, 4n3, 82n3, 295, 308

Lakatos, Imre, 4n3, 284, 308
Language: philosophy and theory of, 5, 19, 289-315; spoken vs. written, 21-23; underdetermination and overdetermination of, 28, 36-37, 45; and activity, 295-96, 303-15. See also Scientific language
Langue-parole distinction, 296-97
Latour, Bruno, 22, 23, 25n8, 28n10, 130n4, 145, 156n3, 190n1, 200, 207, 287, 294, 298
Law, John, 156n3
Lee, Kok Cheung, 155, 298
Leech, Geoffrey, 299
Leeuwenhoek, Anton, 80
Lefevre, Karen, 322n2
Legal language, 61
Leibniz, Gottfried W., 67, 76
Length of articles: in Physical Review, 162-64, 183; in experimental psychology, 273, 274; in American Political Science Review, 281-82
LePage, Robert, 298

Lewis, William, 73
Line, Francis, 69-70, 72-73
Linguistics, 10, 11, 21, 187, 295; code orientation of 296-97; contrary developments, 297-300; sociolinguistics, 298; pragmatics, 299; developmental, 299, 300, 304-5; text grammars, 299-300
Literary criticism, method of, 159
Literary studies, 3n1, 11, 61, 189, 236
Literary theory, 3n1, 10, 20, 60, 62, 187
Literature (of a field): use of in writing, 24-25, 324-26, 328; In Watson and Crick, 27, 30-31; in Merton, 34, 35-36, 38; four levels of in Hartman, 39, 42-44; in Philosophical Transactions, 78-79; Newton's lack of, 126-27; Compton's merging of self into, 216; construction of in reading, 250-53; in psychology, 265, 267, 270, 273; reconstruction of in political science, 282-84
Logic, 188-89
Lohne, J. A., 94n14
Lucas, Anthony, 118-19
Lynch, Michael, 23, 304n1
Lyons, John, 299

McConkey, Donald, 11n12
McConkie, G. W., 236
McGuire, J. E., 83, 85, 93
Malinowski, Bronislaw, 297, 299, 300
Manier, Edward, 4n3
Marcus, G., 280
Marwell, G., 134-36
Material activity and language, 305-15
Mathematics: in scientific writing, 6; as model of discourse for Newton, 87, 98-99, 113-16; selective reading of, 246-47; in economics, 279; in political science, 280, 288; compared to rhetoric as a need of scientists, 331-32
Mead, George Herbert, 5n5
Meadows, A. J., 59n1, 67, 139
Medawar, P. B., 200, 209
Menzel, H., 145
Mersenne, Marin, 130
Merton, Robert King: writing analyzed, 27, 34-39, 46-48; text excerpt, 52-53; theory and findings, 4n2, 25n7, 129, 134-37, 139, 142, 146, 148, 157n6
Messeri, Peter, 203, 283
Metaphor, 36-37
Meyer, Bonnie Jean, 155
Microstructure, relation to macrostructure, 129, 148-49
Miller, Carolyn, 7n8
Mind, 266n1
Mittelroff, Ian, 145
Modelling approach to physics, 181, 183
Moravcsik, Michael, 164n8
Moray, Robert, 100, 101-2
Mortimer, Cromwell, 137
Moving minds, 188-91
Mozart, Wolfgang Amadeus, 65
Mulckay, Michael, 11n12, 129n1, 141, 294
Munsterberg, Hugo, 264
Murphy, James J., 322n1
Myers, Greg, 144n10, 145, 146, 184
Names in reading search, 239-40
Negotiation of claims, 144-46, 184, 309-11
Nelson, John, 11n12
Newton, Isaac: crucial experiment, 7n1, 9, 92, 104, 109, 118; as rhetorical innovator and influence, 15, 16, 82-83, 92, 125-26, 191, 314, 317, 320, 324; answer to Line, 69-70, 72-73, 117; his “New Theory,” 82, 89, 90-99, 126, 133; refusal to publish, 82, 119; his Opticks, 83, 84, 104, 108, 119-26, 157; his notes and notebooks, 83, 85, 88, 93, 94, 97; his “Of Colours,” 83, 85-86, 93, 94; his Optical Lectures, 83, M-87, 89, 93, 94, 98-99, 119; relation to audience, 86-87, 99, 102, 110, 116; mathematical argument, 87, 98-99, 113-16, 119-23, 308; reflecting telescope, 88, 95-96; and Royal Society, 88, 100, 111n22, 134; Correspondence with Oldenburg, 88-90, 97-98, 100, 110, 111n22, 113; certainty of facticity, 89-90, 97-98, 99, 123; use of Baconian ethos, 91-92, 93, 95, 123, 326; conflicts among presentations of findings, 92-95; purchase of prisms, 93; doctrine, 96-99; proscription on hypothesizing, 97-98, 101n18; his “Queries,” 100, 101, 110; answer to Moray, 100, 101-2; answer to Pardies, 100, 102-4; answer to Hooke, 100-101, 104-9; controversy over “New Theory,” 100-119, 327; empiricist reduction of questions, 101n18, 103, 104, 105-7, 110, 114; and compound colors, 101n18, 108-9, 111-16; analogies, use of and argument against, 106, 112; concept of abstraction, 106-7; answer to Huygens, 107, 108, 110-16; compulsion through system, 114-17, 121-27; answer to Gascoines, 117-18; labelling disagreement as error, 117-19; answer to Lucas, 118-19; with Aubrey, 119; his Principia, 119, 125-26, 317; public persona, 125, 134; acceptance of criticism and cooperation, 189n9
Nicholson, Marjorie Hope, 124
Nonfiction, 60-123
Norms of science, 148
North, Stephen, 322n2
Nystrand, Martin, 322n2

Object of study, 24-25, 47-48; in Watson and Crick, 27-34; in Merton, 34-39; in Hartman, 39-40, 42

Qchs, Kathleen, 66n3, 147

Ocular proof, 73-75

Odell, Lee, 322n2

Odysseus, 330

Oehler, Kay, 294

Olby, Robert, 28n11

Oldenburg, Henry: as editor of Philosophical Transactions, 69, 75, 129-34; and Newton, 84, 88-90, 97-98, 100, 110,113; mentioned, 15,314, 320


Orr, Leonard, 236

Overington, Michael, 322n3

Page, Benjamin, 281, 283-88

Papin, Denis, 66

Paradis, James, 63, 82n1, 123

Pardies, Ignace, 100, 102-4


Pauling, Linus, 31, 81

Perelman, Les, 322n2

Peterson, Margaret Jean, 274

Petty William, 76

Philosophical Transactions of the Royal Society of London, 16, 63-80, 130-38, 140, 262, 284, 320; Newton’s perception of, 82, 84, 87-90; early readership, 133, 134; mentioned, 80. See also Oldenburg, Henry

Philosophische Studien, 263, 264-65, 266

Philosophy, 4, 10, 62, 187

Photographic plates, used by Compton, 314

Physical Review, 16, 80, 157-83, 204, 282,283

Physical Review Letters, 158

Pickering, Andrew, 294

Plato, 21, 189, 264, 293

Political science, 17, 189; rhetoric of, 280-88; scope and methods books, 281; compared to political philosophy, 287

Polyani, Michael, 307n2

Popper, Karl, 4n3, 7n9, 25n5, 78

Popular journals, 135

Postmodernism, 12, 13

Postponing, 210-11

Practice, language as, 13, 301-4

Precision, in Compton’s revisions, 212-14,223

Prescriptiveness in writing of psychology 259-63, 271

Price, Derek de Solla, 145, 158, 283

Priestley, Joseph, 68, 80

Problem: definition in articles, 177, 179, 181, 197-98, 243, 244, 284; area, 194-96

Pruette, Lorine, 268

Psychological Review, 263, 264, 266, 269

Psychology experimental: diffusion point for social scientific style, 259; official style, 259-61, 271, 285, 320; early journals of, 263; early philosophic character of, 263-68; split from philosophy, 266-69; rise of behaviorism, 268-71; mentioned, 5, 10, 17, 189. See also American Psychological Association Publication Manual; Experimental subjects

Public identity of scientists, 134-36, 138

Quantum theory: in spectroscopy articles, 157, 161, 171, 182-83; and Compton effect, 191-92, 194, 197, 199, 203-4, 216; mentioned, 154n1

Reader, role of, 131-33
Reading, 235-53, 317, 325; as contextualized constructive activity, 235; purpose in, 237-38, 242-50; schema in, 237, 239-50; relation to research program, 236, 238; search for articles to read, 238-41; comprehension difficulties, 244-45; black boxes in, 244-47; evaluation of texts; 246-49; psychological and sociological variables of, 250-52

Reception of texts, 203-4, 329, 330

Referee, institution of, 137

Reference, problem of, 187-88, 224-25, 294, 299

References. See Citations

Reflexivity. See Rhetorical self-consciousness

Reliably reconstitutable phenomena, 173, 307-11, 314-15

Religious discourse, 61, 253, 312

Replication, difficulties of, 27n9, 69-70, 74, 141, 174, 310

Results section, 72-73, 175, 243, 272, 328

Review of literature essay, function for Compton, 199

Revision, See Compton, Arthur H.

Reynolds, R. E., 236

Rhetoric, 3n1, 6n7, 62; rhetorical theory, 15; rhetorical character of knowledge writing, 23-24; rhetorical situations and problems, 8, 206-7, 271, 316, 326-27; rhetorical universe, stabilization of, 217, 275; rhetorical self-consciousness, 317, 320-21, 323-32; rhetorical tradition, 321-22

Rich, G. J., 267

Rizzetti, John, 70

Role: conflict, 134-36, 142-43, 147; conflict mediation, 143-48; unification in science, 144, 146-49; distance, 148n14

Roller, Duane H. D., 119

Rosaldo, Renato, 280

Royal Society of London: and Newton, 88-89, IlIn22, 134; early membership, 133; mentioned, 130, 131, 133. See also Oldenburg, Henry; Philosophical Transactions

Rubin, Donald, 322n2

Rudwick, Martin, 5n4, 156n4

Runelhart, D. E., 236

Runge, Carl, 161

Rydberg, Johannes Robert, 161

Sabra, A. I., 91

Sacred texts, 61, 253

Sapir, Edward, 297

Saussure, F. de, 296-97, 300

Sayre, Anne, 33n14

Scaffolding, 306

Scaliger, Julius Caesar, 7n8

Schaffer, Simon, 118n23

Schema. See Reading

Schools, formation of in social sciences, 39

Schroedinger, Erwin, 158

Scientific language: invisibility of rhetorical character, 6, 14, 257, 320, 322; accomplishment of, 6, 13-15, 257; studies of, 155-56, 189-90, 315; and activity of science, 155; as construction, 155, 298; migration to social sciences, 257-58, 278-79; as complex persuasive system, 258; simplified models of in social sciences, 259-61, 279-81; privileging in common sense view, 292-93; reasons to distrust, 293-95; lack of adequate model of, 298, 300-302; proposed model, 302-7. See also Genre

Scribner, Sylvia, 5n4, 128, 313

Searle, John, 299

Section headings: in Physical Review, 174-75; in Compton, 220; in psychology, 260-62, 268, 269, 272; in political science, 287-88

Selectivity of data by Compton, 201, 208
Index

Semiotics, 294, 297
Sentence length in Physical Review, 167-69
Shadwell, Thomas, 134
Shapin, Steven, 5n4, 75, 140, 144
Shapiro, Alan, 84, 86, 95n15, 108
Shapiro, Barbara, 123, 140
Shared understanding in communication, 303-11
Simon, Alfred W., 192
Situation, structured, 193-94
Skinner, B. F., 268, 293
Sloan, Hans, 136-37
Small, Henry, 21-22, 25n6, 128, 164n8, 203, 303-5
Smith, Lawrence D., 268n2
Social structure, relation to language and cognition, 128-29, 182, 301, 319-21, 324-26
Social system of science, 33, 148-49
Socialization into language use, 304-7
Sociology, 4, 10, 37, 38, 187, 189
Sommerfeld, Arnold, 81
Sophists, 20, 293
Spectroscopy, 160-61
Speech acts, 299
Spiro, R. J., 236
Sprat, Thomas, 15, 134, 293
Statistical indicators problem, 159, 285-86
Statistics in psychology, 272
Steffenson, M. S., 236
Stimson, Dorothy, 136, 137
Stinchcombe, Arthur, 129, 134, 136
Stryker, Sheldon, 134, 136
Stuewer, Roger, 192, 196, 199, 203
Suleiman, S., 236
Sullivant, Harry Stack, 5n5
Summary. See Abstract
Swales, John, 18n1, 155n2, 325
Swift, Jonathan, 149-50, 293
Synchronic-diachronic distinction, 296

Tate, Gary, 4n2
Texts: importance of, arguments against, 19-24; activity of, 21-22; relation to social structure, 22; transience, 23; as objects, 219-22. See also Genre; Scientific language; Writing
Theory, scientific, as an intertextual integrating device, 157, 179-81, 182-84
Theory section, 175
Thomson, J. J., 194, 196
Thought collective, 61, 312-13
Titles, in reading, 239-42
Tompkins, Jane, 236
Toulmin, Stephen, 4n3, 268, 308
Turner, R., 134, 136
Tyler, Stephen, 280
Usefulness, as a criterion, 252, 312
Vatz, Richard, 8n10
Virtual experience, representation as, 74-75, 140
Vocabulary, technical, 28-29, 37, 43-44, 169-71, 274
Vygotsky, Lev, 5n5, 295-96, 302-7, 312-14, 317
Wallis, John, 88
Watson, James D.: discussion of article, 27-34, 46-48, 154n1, 282; text of article, 49-50
Watson, John B., 268-70, 271
Watson, Richard, 70
Weber, Max, 137n8, 184n15
Weimer, Walter B., 32213
Wertsch, James, 302, 303, 313
Westfall, Richard, 82n1, 83, 93, 105n20, 108
White, Hayden, 10n1
White, James Boyd, 11n12
White, Leslie, 153
Whorf, Benjamin Lee, 297
Wilkins, John, 15, 16, 293
Willoughby, Francis, 69
Wilson’s cloud chamber experiments, use by Compton, 204-8
Witness of experiments, 73-75, 140
Index

Wittgenstein, Ludwig, 10, 299
Wuolgar, Steve, 156n3, 294
Word choice. See Vocabulary, technical
Wordsworth, William, 27
Writing: study of, 9-13; practice of, 10, 155, 322-23; unreflective, 15, 320; bad, 244; teaching of 320, 332; advice for, 323-31
Writing-up, 201-3, 209-10

Wundt, Wilhelm, 263, 265, 266, 267, 314

Yearley, Stephen, 156n3, 294
Zeeman, Pieter, 160
Ziman, John, 139
Zone of proximal development, 306
Zuckerman, Harriet, 25n7, 32n13, 328