Contents

TRANSLATOR'S NOTE vii
INTRODUCTORY COMMENT ix
PART I Linguistics and Politics 1
Chapter 1. Politics 3
Chapter 2. Linguistics and the Human Sciences 43
Chapter 3. A Philosophy of Language? 63
Chapter 4. Empiricism and Rationalism 81
PART II Generative Grammar 101
Chapter 5. The Birth of Generative Grammar 103
Chapter 6. Semantics 136
Chapter 7. The Extended Standard Theory 163
Chapter 8. Deep Structure 169
Chapter 9. Universal Grammar and Unresolved Questions 180
NOTES 195
INDEX 199

academic world: and U.S. foreign policy, 41. See also universities See also press Amin, Idi, 34 accessibility and accessible theories, 65-67, 76 ACLU, 25, 26 active-passive relationship, 106, 121, 123, 151n; in Harris's framework, aphasia, 53 120-1. See also passive; transformations and transformational grammar adolescence, 98 artists, 76 Akmajian, Adrian: Introduction to the Principles of Transformational Syntax, 104 169 All God's Dangers (Rosengarten), 55 Alperovitz, Gar, 16 American foreign policy, 6, 40-41; autocracy, 91 Cambodia, 24; Chile, 34, 35, 40; Cold War, 15-17; economic bases, 41; Laos, 10, 30; reconstruction of belief in, 35-36. See also Vietnam War American Intellectual Elite, The (Kadushin), 11 104 American intellectuals, see intellectuals and intelligentsia American mass media, 6, 19; "bal-169, 170; in Chomsky's second ance" policy, 8-9; as capitalistic model, 136. See also rewriting institutions, 9; social and political rules

abduction, 71

analysis in, 6, 7-8; subservience of, 9-10; "vaccination" policy, 34-35. anaphora and anaphoric relations, 142, 145, 147, 185; bound, 185 anarcho-syndicalists, 74 anthropology, 59-60 applicational grammar, 193 artificial intelligence, 128-9 artificial language, 70 Aspects of the Theory of Syntax (Chomsky), 136, 150, 151, 163, Austin, John, 72, 132, 144 Australia, 7; aborigines, 59-60 automata theory, 125 autonomy of syntax, 138-9, 140, 148, 188-9; Jespersen on, 156 Baker, C. L.: Introduction to Generative Transformational Syntax, Bar-Hillel, Yehoshua, 130 base component, 104-6, 119, 165,

behavior, 142; empirical approach, 68–69; technological approaches, 128; verbal, 129

behaviorism and behavioral science, 84, 128, 129; Chomsky's critique of, 46–47, 49, 113–14

beliefs: semantic role of, 142-3, 144, 147-8, 152-3, 189

Bernstein, Basil, 56

"Best Theory, The" (Postal), 150

Bever, Thomas, 53, 151, 154

biological constraints: on cognitive systems, 84, 94, 98–99; on knowledge, 63–68; on language, 98; theory construction role of, 64–69, 76–77. See also universal grammar

biology of language, 133

Black English, 53-56

Black Panthers, 21-24

Blackstone Rangers, 21-24

Bloch, Bernard, 118, 130

Bloomfield, Leonard: Menomini Morphophonemics, 112

body, 81, 83, 84; empirical view, 81-82

Bolshevism, 74, 90

Bracken, Harry, 92-93, 94

brain: empirical view, 81-82; genetic code and, 84. See also cog-

nitive structures and systems

Brazil, 40

Bresnan, Joan, 172

California: FBI activities, 25–26
Cambodia, 24
Canada, 7
capitalism, 9, 12–13, 70;
role of intelligentsia in, 90–91
Cartesian Linguistics (Chomsky), 77–78
Cartesianism, 176; dualism, 92–93, 96–97; innésism, 94; mechanics.

96–97; innésism, 94; mechanics, 96; soul concept, 96–97. See also Descartes, René

case grammars, 154-6, 157

censorship, 20, 21, 24, 26, 30–31; national patterns, 31; Solzhenitsyn on, 32. See also ideological control Central Intelligence Agency (CIA), 29

Chicago, 25, 26, 31, 158; FBI activity in, 21-24, 25

Chile: U.S. intervention in, 34, 35, 40 China, 15, 17

Chomsky, Noam: Aspects of the Theory of Syntax, 136, 150, 151, 163, 169; Cartesian Linguistics, 77-78; Counterrevolutionary Violence: Bloodbaths in Fact and Propaganda, 20, 37-38; Current Issues in Linguistic Theory, 134, 182; Foucault and, 74-80; Language and Mind, 49; lecture to Nieman Fellows, 30–31; letter to New York Times on Vietnam War, 37-38; as linguistics teacher, 134-5; link between linguistic and political activities, 3-8; Logical Structure of Linguistic Theory (LSLT), 106, 108–11, 113–14, 122-5, 126, 131-2, 138, 139, 140, 151n, 170, 175, 182, 183; "Morphophonemics of Modern Hebrew," 111-12, 130; objections to empiricism, 81-83; philosophical influences on, 70-74, 132; political writings, 30; "Questions on Form and Interpretation," 156-7; Reflections on Grammar, 61n; Reflections on Language, 61n, 63, 92, 160, 172; "Remind," 154; Syntactic Structures, 110, 113, 127, 131, 133, 136, 138, 139, 140, 144, 145, 151n, 175; work on history of ideas, 77. See also generative grammar

Church Committee, 21, 24, 26

Citizens' Commission to Investigate the FBI, 22

civil rights movement, 14, 27

Clark, Mark, 23

class struggle, 80

Clemens, Diane, 15

cognitive grammar, 150, 153 cognitive psychology, 109, 111, 113, 114, 116; emerging discipline of, 134; linguistics and, 43-53; and psychology of language, 44-46. See also psychology of language cognitive structures and systems, 45, 49, 64, 126; analogies between, 83– 84; biological constraints on, 84, 94, 98-99; compared to physiological structures, 84, 86, 87; interactions between, 48, 49, 143, 147, 165; language as, 165; as mental organs, 82-83, 180-1; organizational complexity of, 81; performance vs. competence models, 48-51; role in meaning and reference, 142, 143, 145; study of, 49, 82-84, 116-17; vision, 45, 46, 49, 51-52. See also brain; cognitive psychology; knowledge; mind Cointelpro, 22–28 Colby, William, 30 cold war, 15-17 colonial system, 92, 93 communication: as goal of language, 85–88; mathematical theory of, 125, 127, 128 Communist Control Act, 28 Communists and Communist party, 28, 29, 32; FBI disruption attempts, 26-27. See also Marxism competence, 57; grammatical, 150; linguistic, 48-49, 56; poetic, 194 competence models: vs. performance models, 48-50; for vision, 51 computers, 128, 129 conceptual change, 171 conditioning, 85 consciousness, 96 co-reference, 146-7, 163, 175 Council on Foreign Relations, 41 Counterrevolutionary Violence: Bloodbaths in Fact and Propaganda (Chomsky and Herman), 20, 37–38

Course of Modern Linguistics (Hockett), 169
covert categories, 169
creativity, 96, 156, 178-9; Chomsky
vs. Foucault on, 75-76; Humboldt's concepts, 78
Crisis of Democracy, The (Crozier et al.), 17
Crozier, Michel, 17
Current Issues in Linguistic Theory
(Chomsky), 134, 182
cybernetics, 128
Czechoslovakia, 34

Davidson, Donald, 72 Davis, Angela, 34 death: genetic determination of, 98-99 deduction, 71 deep structure, 136, 137, 148, 150, 151, 152, 163, 165, 167, 168, 169-79, 193; in Extended Standard Theory, 171-2; and grammatical relations, 173-4; history of, 169-73; innate, 171; misconceptions of, 171-2; properties of, 170; and semantics, 172; in Standard Theory, 169-70, 173; term, 169; and universal grammar, 183-4 democracy: propaganda in, 38-39 Democratic party, 21 derivational constraints, 150-1 Descartes, René, 66, 76, 78, 156; theory of the soul, 96-97. See also Cartesianism descriptive linguistics, 108, 114. See also structuralism descriptive semantics, 155 descriptivism, 148–9 dialects, 53-56; unresolved questions, 190-2 Dijksterhuis, E. J., 78, 79 discourse, 146, 147 discourse analysis, 120-1 discovery procedures, 114-16, 117, 118–19, 130–1; automation of, 129

Dominican Republic, 35 Donner, Frank, 26 Dougherty, Ray, 151, 154, 155 Dumke, Glenn, 26 Dummett, Michael, 72

economics: of American foreign policy, 41; colonial system, 92, 93; student challenges to, 18 education, 54-55 empiricism, 81-99, 107, 129, 154; approach to acquisition of knowledge, 71; functionalism, 85-88; in generative grammar, 117; ideological and social factors, 88-93; inadequacies of, 68-69, methodological dualism of, 82, 83, 92; Piaget's, 84-85; in psychology, 50; and structural linguistics, 116-17, 118 empiricist learning theory, 126, 127 - 8engineers, 125 English language, 59, 146, 174; accentuation of sentences in, 172; active-passive relationships, 106, 121, 123, 150-1; auxiliary system, 110, 111; generative phonology of, 133, 135; nominalizations, 135; non-standard, 53-55; passive, 158-62; reflexivation, 185-7; traditional grammars, 61 epistemology, 71, 73, 114 Europe, 191 European Marxism, 74-80

European philosophers, 73
evaluation procedures, 112, 113, 114,
117, 118
evolution, 86, 87
experimental method, 46–47
experimental psychology, 46–47
Extended Standard Theory, 151–2,
154, 163–8, 182; deep structure,
171–2; logical form, 165–6; rewriting rules, 163; surface structure
position, 163–4; trace theory,

164-5. See also generative grammar

Fascist countries, 11 Faye, Jean Pierre, 5, 8, 34 Federal Bureau of Investigation (FBI), 21-27, 29, 31; basic function, 22; Cointelpro operations, 22-28; role in Black Panther assassinations, 21-24 Feis, Herbert, 16 Fiengo, Robert, 160, 164 Fillmore, Charles, 148-9; case grammars, 154-6 Fleming, D. F., 15, 19 focus, 164 Fodor, Jerry, 44-45, 135, 136 Fodor-Katz hypothesis, 140-3 Ford, Gerald, 34 foreign accents, 98 formalization, 192 Foucault, Michel, 74-80; on creativity, 75-76; on human nature, 75, 77; politics of, 80; as structuralist, 76-77 France, 47, 71, 135, 148, 154. See also French language free expression, 156 Frege, Gottlob, 142 French language, 98, 103, 157, 162; co-reference, 146; syntax, 183; transformation, 106 French philosophy, 73, 74 French Romantics, 70 French Syntax (Kayne), 106n functionalism, 85-88

Galbraith, John Kenneth, 15; The New Industrial State, 15, 16, 17 Galileo (Galilei), 107, 108 generative grammar, 3, 46, 69, 155, 183; base component (rewriting rules), 104–5, 119, 170; classical precedents, 112; concerns and goals of, 109–11, 140; creativity inherent in, 178–9; deep structure, 169–79; degrees of grammatical-

ness, 175; empirical hypotheses, 117; evaluation procedures, 112, 113, 114, 117, 118; Extended Standard Theory, 151-2, 154, 163-8, 171–2; of factual knowledge, 143; first students and researchers, 134-5; history of, 106, 134-5, 137; kernel sentences, 170; linguists' response to, 94, 130-4; and meaning, 137, 140-1, 142; of Modern Hebrew, 111-12, 130, 133, 193; opposition to structuralism, 106-19; vs. relational grammar, 156; review of properties of, 103-6; semantics component, 137-62; sociolinguists' view, 191-2; specified subject condition, 61; Standard Theory, 135, 137, 141, 148, 150-2, 154, 163, 169-70, 173; surface structure, 170, 175-7; transformation theory, 119-24, 136, 181-2; unresolved questions, 184-94; vision analogy, 51-52. See also Chomsky, Noam; grammar

generative phonology, 111, 133, 135,

178

generative poetics, 194

generative semantics, 148-54, 171; global rules, 152; idealization in, 152, 153; and neo-Bloomfieldian descriptivism, 154; surface structure position, 164

"Generative Semantics" (Lakoff),

150

German Romantics, 70

Germany, 148

Gestalt psychology, 47

global rules, 152

Goodman, Nelson, 72, 130, 132, 137, 140 - 1

grammar, 44, 48, 51, 189; applicational, 193; as autonomous mental organ, 83, 85, 97–98; case, 154–6, 157; cognitive, 150, 153; compared to universal grammar, 183-4; components of, 181; co-reference principles, 146-7, 163, 175; defining concepts, 138; derivational constraints, 150; French, 103; of generative semanticists, 152; as illegitimate idealization, 189; implicit knowledge of, 103-4, 109, 111; "interesting" phenomena, 60-61; vs. language, 97-98; morphophonological component, 105; of a natural language, 105, 126; non-discrete, 149, 153; non-linguistic factors, 152-3; phrase structure, 112, 127; relational, 149, 156, 157-62; rewriting rules, 104-6; role of semantics in, 137-40; of sentences, 120, 147; sociolinguistics and, 190-1; traditional, 103, 108, 109, 140, 154, 157, 187; transformational, 44-45, 105-6, 110, 111, 127, 181; universal, see universal grammar; unresolved questions, 193-4. See also generative grammar; grammatical relations; grammatical rules

grammatical competence, 150

grammatical relations, 157; between structural positions, 173-4

grammatical rules, 158-9, 181, 189; derivational constraints, 150-1; NP-movement, 159-60, structurepreserving, 160

grammaticality, 138

grammaticalness: degrees of, 175

gravity, 96

Greek, 186

Gregory, Richard: vision experiments, 51

Grevisse, M., 103

Grice, Paul, 72

Gruber, J., 154

Hale, Kenneth, 59-60, 193 Halle, Morris, 42, 48, 56, 113, 131, 132, 133, 135, 194 Hampton, Fred, 23, 24, 31 Harris, Zellig, 115, 116, 117, 118,

132; Methods, 118, 120, 122;

transformational theory, 112, 119 - 24Harvard University, 30, 127, 128, 129, 131, 132, 133 Hebrew: generative grammar, 111-12, 130, 133, 193 Helke, Michael, 185 Heny, Frank: Introduction to the Principles of Transformational Syntax, 104 Herman, Edward S., 37-38 hermeneutics, 174 Hill, Archibald, 133 Hintikka, Jaakko, 73 history of ideas: Chomsky's approach, 77-79 history of science, 65, 73; hindsight in, 78-79 Hockett, Charles, 115, 118, 125; Course in Modern Linguistics, 169 Hoenigswald, Henry, 130 Horowitz, David, 15 Human Knowledge (Russell), 71-72 human nature, 68, 70, 91; behaviorist concepts, 128; Cartesian view, 92-93; Chomsky vs. Foucault on, 75, 77; concepts and social science theory, 70; denial of, 90-91; empirical view, 90-92, 93; uniqueness of, 94-95. See also biological constraints; universal grammar human reason, 66 human sciences, 57, 59, 128, 194. See also social sciences humanities, 175, 177, 178 Humboldt, Wilhelm von, 78, 109, 135, 156 Hume, David, 82 Humphrey, Hubert, 28 Huntington, Samuel, 17 idealization, 54, 55-56, 57-58, 61,

idealization, 54, 55-56, 57-58, 61, 189; and generative semantics, 152, 153; legitimate, 142-3; in natural sciences, 73 ideological censorship, 21, 24, 26, 30-31

ideological control, 9, 11, 17, 21, 28, 31, 38 ideology, 154; empiricism and, 88-93 imperialism, 191 Indonesia, 40 induction, 71, 72, 85; Hume's view, infants: perceptual systems of, 52-53 inflectional morphology, 174 information theory, 125 initial phrase marker, 172 innéisme, 85 intellectual tasks, 80 intellectuals and intelligentsia, 5, 90; analytical role of, 4-5; capitalist, 90-91; and empiricism, 89-90, 91, 93; and generative grammar, 154; and ideological control, 9, 11, 28, 31; mainstream, 32; post-Vietnam, 35; socialist, 90; Spanish, 11; technocratic, 90 intelligence, 95, 103, 128-9; artificial, 128-9 International Congress of Linguists, International Journal of American Linguistics, 115 interpretive components, 136 interpretive rules, 168 Introduction to Generative Transformational Syntax (Baker), 104 Introduction to the Principles of Transformational Syntax (Akmajian and Heny), 104 Jackendoff, Ray, 145, 151, 152, 156, 163, 164, 185 Jackson, Robert, 29

Jackendoff, Ray, 145, 151, 152, 156, 163, 164, 185
Jackson, Robert, 29
Jakobson, Roman, 77, 118, 125
Japan and the Japanese, 7, 18, 186
Jespersen, Otto, 156-7; free expressions, 109; Philosophy of Grammar, 156; and relational grammar, 157-62
Johnson, Lyndon B., 34
Joos, Martin, 76
Journal of Symbolic Logic, 131
justice, 80

Kadushin, C.: The American Intellectual Elite, 11
Kasher, Asa, 73
Katz, Jerrold, 72, 135, 136, 140–3, 144, 145, 148, 154
Kayne, Richard, 183; French Syntax, 106n
Kendall, Walter, 90
Kennedy, John F., 34
Kennedy, Robert, 27
Keyser, S. Jay, 42, 194

kinship systems, 60 Kissinger, Henry, 10 Klima, Edward, 134, 135

knowledge, 83, 84; biological constraints on, 63–68; empirical view, 116; Foucault's theory, 75–76; linguistic, 103–4, 109, 111, 113, 114, 116, 124, 140, 189; mathematical, 67–68; musical, 68; Piaget's view, 84–85; scientific, 75. See also cognitive structures and systems; philosophy of knowledge

Köhler, Wolfgang, 47 Kolko, Gabriel, 15, 19 Korean language, 186 Kripke, Saul, 72 Ku Klux Klan, 27 Kuhn, Thomas, 73

Labov, William, 53-56 Lakatós, Imre, 73 Lakoff, George, 148, 150, 154, 189; "Generative Semantics," 150

Langages, 154
language, 48, 51; artificial, 70; as aspect of human nature, 77, 95–96; behavioral analogue, 69; biology of, 94, 98, 133; as cognitive system, 83, 165; creative aspect of, 156; definition of, 190; discovery procedures, 114–16; explanatory theory, 106–7, 109–10, 111–12, 114, 122, 124, 131; facts of, 142, 166; functionalist view, 85–88; of the ghettos, see Black English; individual spoken, 54; infinity of forms, 64; "interesting" phenomena in, 59,

60–62; Markov source models, 125–26, 127, 129; as model of knowledge, 63–65; natural, 73, 105, 126, 166, 167; neurology of, 48, 53; perceptual influences on, 44–45, 84; and power, 191; psychological assumptions about, 50; Saussurean theory, 50, 51, 97–98; social interaction analogue, 69–70; of Stone Age man, 55; structuralist view, 76–77; structure of, 167; uses of, 87–88; word order, 193. See also grammar; language acquisition; language use; linguistic theory; linguistics; syntactic structure

Language, 46, 113, 122, 133 language acquisition, 43, 44, 50, 113, 114, 117, 124, 180; and autonomy of syntax, 138-9; boundary conditions, 111-12, 116, 117; critical age for, 98; discovery procedures, 114-16; empirical view, 85; functionalist view, 86-87; and generative semantics, 148; mechanism of, 98. See also language; linguistics Language and Mind (Chomsky), 49 language change, 87 language games, 60 language use, 144, 153; Oxford theories, 141 Laos, 10, 30 Laplace, Pierre Simon de, 96 lateralization, 53 Latin, 193 learning theory, 126; empiricist, 126, 127 - 8Lees, Robert, 113, 133, 134, 135 leftists, 19, 20, 27, 90. See also Communists and Communist party; Marxism Leibniz, Gottfried Wilhelm von, 143 Lenin, Nikolai, 90 Leninist doctrine, 74 Lenneberg, Eric, 113, 133 Lévi-Strauss, Claude, 60 lexical insertion, 169, 170, 174 lexical items, 169, 170, 173-4

lexical passive, 161 lexical rules, 181 lexicon, 136, 137

liberals and liberalism: classical, 70; concept of human nature, 70; Democratic, 28; ideology, 35; intellectuals, 15–17; and McCarthyism, 28–29; press, 24, 31–32, 33, 35–40; repressive actions of, 28–29; retrospective analyses of Vietnam War, 35–40; Solzhenitsyn and, 31–32, 33. See also American mass media; press

linguistic competence, 48-49; of lower-class children, 56

linguistic judgments, 153

linguistic levels, 139

Linguistic Society of America, 157 linguistic structure, 183; and perception, 44-45, 47-48

linguistic theory, 106–10, 111–12, 114, 122, 124, 130, 131, 152, 154–5; as goal of generative grammar, 109–10; innate, 140; pre-generative grammar, 167; semantic considerations, 139; and theory of ideology, 41–42; and universal grammar, 183–4. See also universal grammar

linguistic universals, 76-77

linguistics, 64, 178-9, 188; activities and concerns, 61, 118-19; American neo-Bloomfieldian, 76; and anthropology, 59-60; Chomsky's view, 194; and cognitive psychology, 43-53, 122, 134; competence concept, 57; competence models, 48-50; descriptive, 108, 114; and early generative grammar, 130-4; formalization, 125; functionalism, 85-88; goals of, 148, 153; idealization in, 54, 55-56, 57-58, 61; and ideology, 190-4; limitations of, 48; and mathematics, 6, 124-9; politics and, 3-8; as science, 106-9; and social dominance, 57; and sociology, 53-59; structuralism, see structuralism; study of dialects, 53-56; study of meaning and reference, 139. See also language; linguistic structure; linguistic theory; psycholinguistics; psychology of language; sociolinguistics

literary criticism, 56-57

literature, 194

Locke, John, 92

logic, 156, 166-7; of conversation, 72; and language theory, 167; and universal grammar, 183

logical form, 145, 165–8, 189; derivational process, 166

Logical Structure of Linguistic Theory, The (Chomsky), 106, 108–11, 113–14, 126, 138, 139, 140, 151n, 170, 175, 182, 183; reception of, 131–2; transformation theory, 122–5

Lukoff, Fred, 135 Luxemburg, Rosa, 74

machine translation, 135

markedness, 118

Markov source models, 125-6, 127, 129

Marshall, George, 29

Marx, Karl, 70, 91

Marxism, 18, 74; Bolshevism, 74, 90; Chomsky on, 74; political economy, 58

Massachusetts Institute of Technology (MIT), 25, 131, 132, 185, 186; linguistics department, 134; research climate, 132–3; Research Laboratory of Electronics, 132, 134, 135

mass media, see American mass media; press

materialism, 94

mathematical linguistics, 6, 127 mathematical theory of communica-

tion, 125, 127, 128

mathematics, 60, 67-68; compared to political science, 7; and linguistics, 124-9; non-demonstrative inference, 71-72

Matthews, G. H., 134, 135

Mattick, Paul, 74

maturation, 82, 94, 98

McCarran Act, 28

McCarthy, Joseph, 28-29

McCawley, James, 148

meaning, 72, 106, 140-2, 165;

Chomsky's theory, 140–1; deep structure and, 163; dual theory of, 140–1; related to form, 150; sentences devoid of, 144; surface structure and, 151–2; and syntax, 137, 138–9; and universal grammar, 140. See also semantics and semantic theory

meaningfulness, 138

mechanics: Cartesian vs. Newtonian, 96-97; classical, 78

Mehler, Jacques, 47

memory, 48, 49, 86, 97, 98

Menomini Morphophonemics (Bloomfield), 112

mental faculties, see cognitive structures and systems; mental organs; mind

mental organs, 83, 180-1, 189; grammar as, 83, 85, 97-98. See also cognitive structures and systems

Methods (Harris), 118, 120, 122

metrics, 42, 48

Middle East, 6–7

Miller, George, 86, 129, 133

mind: as biological system, 66;

Chomsky's view, 83; empirical view, 82; innate structures, 94. *See also* brain; cognitive structures and systems

mind-body dualism, 81-83

minorities, 21

Minute Men, 24–25

model of competence, 189-90 model-theoretic semantics, 72

theory, 167, 168 Moravcsik, Julius, 72, 141

Moravcsik, Julius, 72, 141 Morgenthau, Hans, 11

"Morphophonemics of Modern Hebrew" (Chomsky), 111–13, 130,

Montague, Richard: quantification

morphophonology, 105, 136 Moynihan, Daniel P., 33–34 music, 68

Nation, 26

natural history, 58-59, 78-79, 178 natural language, 73; grammar of, 105, 126; quantifiers in, 166; syntax of, 167

natural sciences, 66, 81; concerns of, 58-59; idealization in, 57-58, 73; vs. natural history, 58-59; progress in, 73, 171, 175-6, 187-8; theories, 122. See also physics

Nazism, 5

negation and negative structures, 151, 161, 163

neurological structures and functions, 48; lateralization, 53. See also brain

New Industrial State, The (Galbraith), 15, 16, 17

New Left, 19, 27

New Republic, 24

"New Taxonomy, The" (Fillmore), 148

New York Times, 19; retrospective analysis of Vietnam War, 36–38

Newton, Isaac, 78

Nixon, Richard M.: 20-21, 24, 27-28, 29, 34; enemies list, 21, 24. See also Watergate affair

non-demonstrative inference, 71–72 non-discrete grammar, 149, 153 number theory, 67

O'Neal, William, 23 Otero, Carlos, 174

Ottoman Empire, 191 Panini: grammar of Sanskrit, 112 Pannekoek, Anton, 74 passive: lexical, 161 passive-active dichotomy, 151n. See also active-passive relationship passive transformation, 158-62, 182n Paul, Hermann, 109 peace movement, 27, 37, 38 Peirce, Charles Sanders, 71 Pentagon Papers, 41 perception and perceptual systems, 52-53, 189; of infants, 52-53; and sentence structure, 44-45, 84; visual, 45, 46, 49, 51-53. See also cognitive structures and systems performance models, 48, 49, 50, 189-90. See also behaviorism and behavioral science Peters, Stanley, 127

philosophy and philosophers, 70–79, 85, 132, 134, 138, 167; Cartesian dualism, 92–93, 96–97; empiricism, see empiricism; Marxist-Leninist, 74–80. See also philosophy of knowledge; philosophy of language; philosophy of science

Philosophy of Grammar (Jespersen), 156

philosophy of knowledge, 63; Hume, 82; Piaget's, 84–85; Russell's theories, 71–72; theory construction, 64–67. See also knowledge; philosophy and philosophers

philosophy of language, 63–65, 72–73; contemporary, 72–73; Jespersen, 156; and universal language, 183. *See also* language; linguistics; philosophy and philosophers

philosophy of science, 63–64, 73; biological constraint concepts, 65–68; creativity concepts, 75–76; theory construction, 65–67, 71. See also natural sciences; physics

phoneme, 138, 177
phonetics and phonetic representation, 165, 189; and semantics, 141
phonology, 112, 118, 130, 139, 152, 155, 164, 166, 167, 172, 173, 175, 184, 189; generative, 111, 133, 135, 178; structuralist vs. generative, 178; trace, 175
phrase markers, 158, 170, 172

phrase structure grammar, 112, 127 physics, 66, 129, 153, 172, 188; experimental techniques, 47; Galilean, 107, 108; "interesting" phenomena for, 58–59; mechanics, 78, 96–97; as model for linguistics, 106, 107–8. See also natural sciences

physiology, 83, 84
Piaget, Jean, 46; empiricism, of, 84–85

P-marker, see phrase marker poetic competence, 194 poetry, 175

Polish language, 186 politics, 3–42; Chomsky vs. Foucault on, 79–80; linguistics and, 3–8; student movement, 12–20. See also American foreign policy; liberals

and liberalism; United States; Vietnam War; Watergate affair Popper, Karl, 71

Port-Royal Grammaire Générale, 76, 168

Portuguese intellectuals, 11 Postal, Paul, 135, 136, 148, 149, 156, 158; "The Best Theory," 150 pragmatics, 73, 149

press: American liberal, 24, 31–32, 33, 35–40; ideological censorship of, 21, 24, 26, 30–31; in Vietnam War, 9–11, 35–40; in Watergate affair, 30, 31. *See also* American

presupposition, 164

mass media

Pravda, 9

Princeton: Institute for Advanced Study, 133 process models, 48 projection rules, 137, 144 propaganda systems, 38-39 propositions, 167, 168 psycholinguistics, 44, 47-48, 133; concerns of, 47-48; Fodor's "click" experiments, 44-45; and social discrimination, 56. See also psychology of language psychological reality, 118, 119; of discovery procedures, 115, 116 psychology, 60, 114, 125, 134, 194; behavioral, see behaviorism and behavioral sciences; Chomsky's paradigm for, 49; cognitive, 44-46, 109, 111, 113, 114, 116, 134; empiricism in, 50; experimental, 46-47; Gestalt, 47; and linguistics, 43-53; need for competence concept, 49. See also psycholinguistics; psychology of language psychology of language, 44-50, 84; vs. behaviorism, 46-47; field of study of, 44; influence on other fields, 44-46; performance vs. competence models in, 48-50. See also cognitive psychology; psycholinguistics Putnam, Hilary, 72

qualifiers, 142 quantifiers and quantification, 151, 163, 165, 166; Montague's theory of, 167, 168 "Questions of Form and Interpretation" (Chomsky), 156-7 Quine, W. V., 72, 85, 129, 130, 132, 137-8, 141, 143

racism, 92–93
raising, 44–45, 173–4
Ramparts, 10
rationalism, 77, 84. See also empiricism
reason, 66
reference, 140–2. See also co-reference; meaning

Reflections on Grammar (Chomsky), Reflections on Language (Chomsky), 61n, 63, 92, 160, 172 reflexivation, 185-7 grammar, 149, 156, relational 157 - 62relative clauses, 173 "Remind" (Chomsky), 154 research, 57, 58 rewriting rules, 104-5, 110, 119, 136, 160, 181; derivational history of, 170; in Extended Standard Theory, 163 Ritchie, Robert, 127 Rocker, Rudolf, 74 Romantics, 70 Rosenbaum, Peter, 151 Rosengarten, Theodore: All God's Dangers, 55 Ross, John, 148, 149, 183, 189 Russell, Bertrand: Human Knowledge, 71-72 Russia: Cold War and, 15, 16, 17; Revolution, 74; Solzhenitsyn's view, 32. See also Soviet Union Russian language, 193; generative phonology of, 135

Sakharov, Andrei, 32 Samuelson, Paul, 18 San Diego: Minute Men, 24-25, 31 San Diego State College, 25 Sapir, Edward, 118 Saumjan, Sebastian, 167, 194 Saussurean system, 50, 51, 156; langue concept, 97-98 Schlesinger, Arthur, 17 Schützenberger, M. P., 127, 135 science, see empiricism; natural sciences; philosophy of science; physics scientific creativity, 74-75 Seattle, 26 Secret Army Organization, 25, 31 Selkirk, Lisa, 164

semantic interpretation, 169, 170–1, 173; role of surface structure, 163. *See also* semantics and semantic theory

semantic representation, 141, 171; and deep structure, 148, 150–2; vs. logical form, 145; and surface structure, 150–2, 171, 173; and syntactic structures, 141; T-marker, 170; and truth conditions, 144–8. See also semantics and semantic theory

semantics and semantic theory, 106, 136-62, 164, 175, 184; co-reference principles, 146; and deep structure, 172; definitions of, 140; extensional vs. intensional, 144-5; Fodor-Katz hypothesis, 140-3; 148–54, 164, generative, grammar role of, 137-40; integration of theory of, 154-6; interpretive, 145; linguistic theory role of, 139; model-theoretic, 72; of natural languages, 73; pre-Standard Theory, 137-8; projection rules, 144; and systems of belief, 142-3, 144, 147-8; universal, 140-3, 144. See also meaning; semantic representation

semiology, 71

sentences and sentence grammar, 120, 147; devoid of meaning, 144; negation and quantification, 151; perceptual influences on, 44–45, 84; relative clauses, 173–4; transformational history of, 170; truth and, 144–8

Shaw, Nate, 55

simplicity and simplicity measure, 112, 113, 130

Skinner, B. F., 46-47, 129

slavery, 91

Smith, Adam, 70

Smith, Gaddis, 19

SNCC (Student Non-violent Coordinating Committee), 14

social and political analysis, 4-5; credentials for, 6-7

social change, 70, 74, 80

social control, 90. See also ideological control

social interaction: universal grammar of, 69-70

social sciences, 6, 12; accessibility of, 4-5; conceptual change in, 175-6, 177-8; human nature concepts, 70-76. See also anthropology; human sciences; psychology; sociology

Socialist Workers party, 27

socialists and socialism: in American mass media, 9; intelligentsia and, 90. See also Marxism

sociolinguistics, 53–56, 57; questions about, 190–4; view of generative grammar, 191–2. *See also* linguistics; sociology

sociology, 192; Chomsky's view, 56–59; compared to natural sciences, 58–59; linguistics and, 53–59; methods, 58; resistance to idealization, 57–58

Solzhenitsyn, Alexander, 31-34

soul, 96-97

Soviet Union, 9, 32; American Communists and, 32, 34. See also Russia

Spain, 11, 32

spatial intuition, 67

speech acts, 72

Standard Theory, 135, 137, 141, 148, 150–2, 163; compared to Fillmore's case grammar, 154; criticized, 173; deep structure in, 169–70, 173; symmetry of, 173. See also Extended Standard Theory; generative grammar

stimulus-response learning theory, 126

Stone Age, 55, 95

structuralism, 76-77, 97, 130, 138, 148, 154, 156, 167; Chomsky's alleged return to, 175-7; contribu-

tions of, 114–15; discovery procedures of, 114–16; distinguished from Chomsky's approach, 103, 106–19; empiricism and, 116–17, 118; surface structure and, 175–7; transformation theory, 119–24

structuralist phonology, 178 structure of discourse, 120

student movement, 12–20; and Cold War theory, 16, 17–18; government provocateurs, 13, 18; isolation of, 28; major effect of, 13–14, 17; in the seventies, 19–20

Suppes, Patrick, 126

surface structure, 120, 123, 136, 169, 170, 172, 173; Chomsky's concepts criticized, 175–7; lexical insertion and, 174; logical form, 166–8; meaning role, 151–2; position, 163–4; properties of, 175; semantic role, 163; and structuralism, 175–7; trace theory, 171, 173

syntactic structure, 158; base-generated, 112; meaning and, 137, 138; relation to logical form, 166–8; and semantic representations, 141; study of, 155; traditional vs. structural approach, 108–9; transformational rules, 105–6. See also deep structure; surface structure; syntax; transformations and transformational grammar

Syntactic Structures (Chomsky), 110, 113, 127, 131, 133, 136, 138, 139, 140, 144, 145, 151n, 175

syntax, 149, 152, 164, 166, 184, 189; autonomy of, 138–39, 140, 148, 156, 188–9; of natural language, 167; theory of, 167. See also syntactic structure

temporal processes, 48 Teuber, Hans-Lukas, 134 Texas Conference, 114, 132, 133 thematic relations, 157–8, 163, 164–5 theory and theory construction, 85; abduction principle, 71; accessible, 65, 66, 67; of behavior, 68–69; biological constraints on, 64–69, 76–77; inaccessible, 67; of social change, 70; true, 65–66, 67. See also linguistic theory

T-marker, 170

traces and trace theory, 164-5, 167, 171, 173, 177; structuring effect of silence, 175

traditional grammars, 103, 108, 109, 140, 154, 157, 187. See also grammar

transformations and transformational grammar, 110, 111, 156, 169, 181; active-passive relationship as, 106, 158–62; current hypotheses, 181–2; empirical evidence, 124; generalized, 170; Harris's work, 112, 119–24; and idiosyncratic properties of words, 174; incorrigible, 124; mathematical investigation of, 127; raising, 44–45; 173–4; rules, 105–6, 174, 181–2; singulary, 170; in structural vs. generative grammar, 119–24; trace theory, 164, 165

trees, 119
Trilateral Commission, 17
Troubetskoy, Nikolai, 116, 117, 118
Truman, Harry S, 28
truth, 144–8; in theory, 65–66, 67

Uganda, 34

United States: civil rights movement, 14, 27; Cold War and, 15–17; ideological conformity in, 12; intelligentsia, 90; military interventions of, 35–40; political freedom in, 30–31; social and political analysis in, 6–9; Solzhenitsyn on, 32. See also American mass media

universal grammar, 44, 49, 50, 61, 106, 140, 171, 172, 180-4, 194; and deep structure, 183-4; goals, 181; knowledge of linguistics for, 183;

as linguistic theory, 183–4; of mathematics, 67–68; mental organ concept, 180–1; misunderstandings about, 183–4; of music, 68; of possible social interaction, 69; relationship to grammar, 183–4; of social interaction, 69–70; for theory construction, 65
universal semantics, 140–3, 144, 148

universal semantics, 140–3, 144, 148 universities, 8, 12–20; laboratories, 15; political censorship in, 25–6; politicization of, 14–17; purges, 28; social science programs, 15; student movement, 12–20. See also intellectuals and intelligentsia University of Pennsylvania, 130

Uribe, Manuel, 34

vaccination, 34
verbal behavior, 129
Vergnaud, Jean-Roger, 173
Viertel, John, 135
Vietnam War, 6, 7, 34; American
policy in, 35–40; peace treaty negotiations, 10; Phoenix Program,
29; press and, 9–11, 36–38; resisters and deserters, 32–33; retrospective analysis of, 35–41;
Solzhenitsyn's view of, 32
violence, 80
visual perception, 45, 49, 83; face-

perception theory, 51-52; of in-

fants, 52–53; and spoken language, 46

wage labor, 91 Walbiri language, 193 Wallace, Henry, 28 Warburg, James, 15 Warner Bros., 38 Washington Post, 21; on Vietnam War, 39-40 Wasow, Thomas, 164 Watanuki, Joji, 17 Watergate affair, 20-1, 24, 27-28, 30, 31, 34; in context of other political crimes, 20-27 Western Europe, 7, 12, 18 Wha-Chun Kim, 186 What Is to Be Done? (Lenin), 90 White, Morton, 132 Whorf, Benjamin Lee: covert categories, 169 William James lectures, 129 Williams, William Appleman, 15, 19 Wittgenstein, Ludwig, 138, 143, 171; deep grammar-surface grammar, Word, 132 word order, 193 women, 91

Yale University, 130 Yngve, Victor, 135