PREFA	CE	
Hila	ry Putnam	xi
FORE	VORD	xv
CHAP	TER 1 / REDUCING TEXTS TO FORMULAS	
	Zellig Harris	1
1.	Seeking Canonical Forms	1
2.	Analysis of Word Combinations	4
2.1.	Grammatical Analysis	5
2.2.	Sublanguage Classes and Sentence Structures	7
2.3.	Sublanguage Subclasses	8
2.4.	The Tables	10
2.5.	Validity of the Procedures	11
3.	Details of the Analysis	12
3.1.	Word Combination within Segments	12
3.2.	Obtaining Repeating Types of Sentences	14
3.3.	How Much Transformation?	19
3.4.	Summary of Procedures of Analysis	23
3.5.	Output	24
CHAP	TER 2 / RESULT: FORMULAS OF INFORMATION	
	Zellig Harris	25
1.	Meta-science Segments	26
2.	Word Classes	29
3.	Word Subclasses	34
4.	Word Modifiers and Local Operators	39
5.	Summary of Word Classes	42
6.	Sentence Types	59
7.	Sentence Formulas	62

CHAP	TER 3 / FROM STRUCTURE TO INFORMATION	61
	Zeing Harns	04
1.	Differences in Structure and Differences in Information	64
1.1.	Course of the Information	64
1.2.	Changes in Word Classes	65
1.3.	Changes in Sentence-types	65
1.4.	Critique of the Sentence-types	67
2.	Formula-based Critique of Information	68
3.	Sublanguage Properties	72
3.1.	Grammatical Structure	72
3.2.	Discourse Structure	75
3.3.	Information Processing	75
4.	Further Work	76
5.	Toward the Grammar of Science	78
CHAP	TER 4 / SUBLANGUAGE FORMULAS AS	
	INFORMATION UNITS	0.7
	Thomas Ryckman and Michael Gottfried	85
1.	Normal Form Linearity: Projection and the Use of the	00
2	Allow Local Operator Medifier	88
2.	Modifiers of Argument (Noun) Catagorian	90
2.1.	Referential Superscripts	91
2.2.	Modifiers of Operator Categories	92
2.5.	The Classifier 'Response'	95
۶. ۵	Correlations between W and V Operators	95
5	Sublanguage Homonymities	102
6	Extending Sublanguage Grammar	102
7.	Information Structure and the 'r' Operator	104
	information officiate and the T oppitator	100
CHAPI	ER 5 / THE APPARATUS OF SUBLANGUAGE	
	TRANSFORMATIONS	
	Michael Gottfried and Thomas Ryckman	112
1.	A Preliminary Survey of Sublanguage Transformations	113
2.	Relinearization	117
3.	Reconstruction of Repetitional Zeroing	121
3.1.	Parallel-zeroing and End-zeroing	122

vi

3.2.	Subject Zeroing	122
4.	Reconstruction of Low-information Zeroing	123
4.1.	Broad Selection Words	123
4.2.	Strong Selection Zeroing	124
4.3.	Constants	127
4.4.	Reconstruction of Sublanguage Appropriate Zeroings	128
5.	Relative Clause	132
5.1.	Representation and Reading in the Tables	133
5.2.	Reductions Associated with Relative Clause	135
6.	Larger Transformations	137
6.1.	Denominalization	137
6.2.	Passive	140
6.3	Causative	140
7.	Comparative	141
8.	Quantifiers and the Negative	144
9.	Further Regularization	145
СНАРІ	ER 6 / EXTENDING THE ANALYSIS: THE INFORMATIONAL ENVIRONMENT OF THE SCIENCE SENTENCES	
	Paul Mattick, Jr.	151
1.	Introduction	151
2.	Word Classes and Sentence Types	153
2.1.	Elementary Fact Sentences	153
2.2.	Quantity Sentences	156
2.3.	Science Fact Relations	159
2.4.	Metascience Operators and Arguments	162
3.	Conclusions	165
CHAPI	TER 7 / INFORMATION UNITS IN A FRENCH CORPUS	
	Anne Daladier	170
1.	Information Grammar as a Pattern-matcher on Sentences and Linearization Rules to Produce Sentences from Informational	170
~	Units	170
2.	An Applicative Grammar of Informational Units	171
2.1.	How the Construction of Categories from Word Class	
	Combinations, in Sentences in Scientific Texts, Expresses	
	Boin the Specificity of word Use in That Domain and a	

	Notion of Correctness in Information Units	171
2.2.	The Contextual Meaning of Words in Sentences Is Accounted	
	for by Deterministic Categories in Units	172
2.3.	The Applicative Status of Categories and the Applicative	
	Structure of Units	173
2.4.	Applicative Structure of a Unit and Linearizations	174
3.	Using the Grammar of Informational Units as a Pattern-	
	matcher for a Direct Recognition of Informational Units	176
3.1.	Avoiding Preliminary Transformations on the Structure of	
	Sentences, and Operations from Sentence Structure to Unit	
	Structure	176
3.2.	Getting a List of Categories from a Surface Structure and	
	Matching a Unit on It	177
3.3.	Recovering Implicit Information	180
4.	Linearization Rules: Producing Sentences Out of Units	183
4.1.	Linearization Rules and the Applicative Status of Informa-	
	tional Categories	183
4.2.	Organization of the Dictionary of Informational Categories	186
5.	Questions Which Are Not Fully Treated Here	187
6.	Conclusion and Applications of the Method Presented Here	190
CHAPI	TER 8 / THE CELLULAR SOURCE OF ANTIBODY:	
01221	A REVIEW	
	T. N. Harris and Susanna Harris	192
		1/2
1.	Background	192
2.	Early Observations and Experiments on the Macrophage in	
	Relation to Antibody Formation	193
3.	Early Studies on the Lymphatic System in the Production of	
	Antibodies	194
4.	Lymphocyte or Plasma Cell as the Antibody-synthesizing Cell	196
5.	Correlation of Tissue-extract Antibody with Microscopic	
	Observations	196
6.	Extraction of Cells	199
7.	Release of Antibody from Tissues and from Cells Cultivated	
0	in Vitro	199
8.	Studies Involving Aggregation of Bacterial Cells Around	
	Tissue Cells	200

viii

	TABLE OF CONTENTS	ix
9.	Histochemical Staining for Nucleic Acid in Lymph Nodes in	
	Relation to Formation of Antibodies	201
10.	Fluorescence Staining for Antibody	202
11.	Transfer of Cells of Lymph Nodes, Lymph and Spleen	203
12.	Resolution of the Problem: Electron Microscopic Studies of	
	Antibody-producing Cells	206
APPEN	DIX 1 / TABLES OF IMMUNOLOGY REPORTS: ENGLISH	
	Zellig Harris, Michael Gottfried, and Thomas Ryckman	217
APPENDIX 2/ TABLES OF IMMUNOLOGY REPORTS: FRENCH		477
	Anne Dalacier	4//
APPEN	IDIX 3 / NOTES TO THE TABLES OF THE ENGLISH	
	ARTICLES	
	Michael Gottfried and Thomas Ryckman	521
	Mondor Contriou and Mondo Ryckindi	521
LIST OF SYMBOLS		587