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By **Barbara Partee, Alice ter Meulen** and **Robert Wall**

STUDIES IN LINGUISTICS AND PHILOSOPHY

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Mathematical Methods in Linguistics has been designed to provide a comprehensive introduction to mathematical methods which have important linguistic applications. Developed partly from two out-of-print sources, *Fundamentals of Mathematics for Linguists* (1978) by Barbara Partee and *Introduction to Mathematical Linguistics* (1972) by Bob Wall, this new title has been completely revised and rewritten with a substantial amount of new material by Alice ter Meulen. The book is thus the only basic text in the subject for undergraduate and graduate students in theoretical linguistics.

Assuming no prior mathematical knowledge other than ordinary high school mathematics, the book starts with elementary set-theory which accustoms the student to mathematical abstraction, building up to formal number structures and paradoxes. The material on logic covers not only the standard first-order logic, but includes semantic tableaux, higher order logic and a non-technical account of meta-theoretic issues such as decidability, axiomatizability, and completeness. Algebraic methods are presented with a new emphasis on lattices, and classical as well as constructive algebras are discussed. Recent research in natural language semantics is included with an introduction on lambda-abstraction quantifiers and intensionality. Automata-theory, the hierarchy of grammars and formal languages, updated to include new grammatical models, form the elementary background for formal syntax and computational linguistics.

To be available in Spring, 1987.

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Part A: Set Theory. 1. Basic Concepts. 2. Operations, Relations and Functions. 3. Properties of Relations and Operations. 4. Formal Systems and Number Structures. Review Exercises. ☐ Part B: Logic. 1. Basic Concepts. 2. The Logic of Statements. 3. Predicate Logic. 4. Metatheory. Review Exercises ☐ Part C: Algebra. 1. Basic Concepts. 2. Operational Structures. 3. Lattices. 4. Boolean and Heyting Algebras. Review Exercises. ☐ Part D: English as a Formal Language. 1. Basic Concepts. 2. Generalized Quantifiers. 3. Intensionality. Review Exercises. ☐ Part E: Automata Theory and Computation. 1. Basic Concepts. 2. Finite State Automata, Regular Languages and Type 3 Grammars. 3. Push-down Automata, Context-free Languages and Type 2 Grammars. 4. Turing Machines, R.E. Languages and Type O Grammars. 5. Linear Bounded Automata, Context-Sensitive Languages and Type 1 Grammars. Appendixes. Index.



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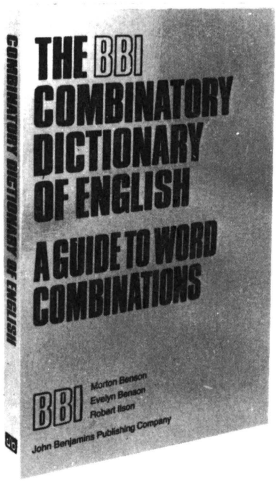
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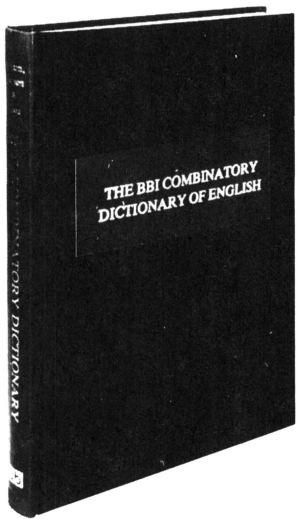
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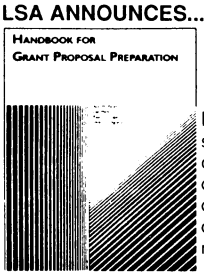
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Ivonne Bordelois, Heles Contreras and Karen Zagona (eds.) 1986 xiv + 211 pp.
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The theory of Government and Binding provides a rich theoretical framework for characterizing both the universal properties of linguistic competence (principles of UG) and the possible forms in which those principles are 'fixed' as particular grammars upon exposure to linguistic data (parametrization).
The concept of acquisition as involving parameter-setting has shifted the focus of syntactic research away from particular constructions toward examination of the more general structural properties of languages. Rather than restricting attention to a set of rules which derive specific constructions, analyses within the Government and Binding framework are concerned with the investigation of principles of UG and of parameters which determine both language particular properties, and more generally, typologies of languages resulting from parameter-setting.
The studies in this volume represent current work on Spanish syntax within this framework. A wide range of grammatical constructions is examined in relation to issues of current theoretical interest, including licensing of null categories, parameters of clausal constituent ordering, neutralized categories, predication and small clauses, restructuring, clitic types, coreference and binding domains.

Contents:
Preface/Introduction/*Ivonne Bordelois:* Parasitic Gaps: Extensions of Restructuring/*Heles Contreras:* Spanish Bare NPs and the ECP/ *Violeta Demonte:* Predication and Passive/*Anneke Groos and Reineke Bok-Bennema:* The Structure of the Sentence in Spanish/*Carlos P. Otero:* Arbitrary Subjects in Finite Clauses/*M. Carme Picallo:* A Note on the Visibility Condition/*Susan Plann:* Substantive: A Neutralized Syntactic Category in Spanish/*Gemma Rigau:* Some Remarks on the Nature of Strong Pronouns in Null-subject Languages/*Maria Luisa Rivero:* Binding in NPs/*Margarita Suñer:* On the Referential Properties of Embedded Finite Clause Subjects/References/Index.

DOMAINS AND DYNASTIES: THE RADICAL AUTONOMY OF SYNTAX

Jan Koster autumn 1986

In general, GB grammars contain conditions on derivations such as Subjacency as well as conditions on representations such as the binding conditions for anaphors. The introduction of trace theory has, in principle, opened the way for eliminating most conditions on derivations in favor of a uniform set of conditions on representations.
As in *Locality Principles in Syntax* (SSG 5), the author adopts a radical representational perspective. He demonstrates that 'Move alpha' is only a subcase of a general, configurationally-bound property exchange schema. As a consequence, he argues, levels like D-structure and NP-structure are more properly seen as substructures of the central level of S-structure, while the very existence of a level of Logical Form seems questionable (chapter 2).
The empirical gain of a radical representational view is that it makes possible a unified domain theory for syntactic dependencies. It is hypothesized that the Bounding Condition of *Locality Principles in Syntax* defines a core domain for most local dependencies found in natural languages (chapter 1). This core domain can be detected in control structures (chapter 3), in the representations associated with Wh-movement (chapter 4) and NP-movement (chapter 5), and also in the assignment of scope (chapters 4 and 5). The domain definitions for these structures are not essentially different from those postulated for bound anaphora (chapter 6).
Insofar as natural language grammars show (marked) domains larger than the core domain, these extended domains are determined by a small number of opacity factors and domain governors. The opacity factors are part of Universal Grammar and are argued to be organized by Berwick's Subset Principle and other learning principles. Sequences of domain governors are also restricted by Universal Grammar and form abstract objects called 'dynasties'. The theory of domains and dynasties combines the core locality principle – the Bounding Condition – with a generalized notion of Richard Kayne's percolation projections. The theory is illustrated with a rich set of facts from Dutch, English, and several other languages.

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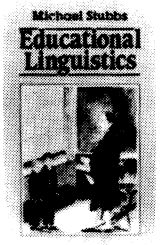
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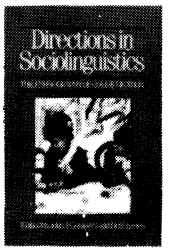


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