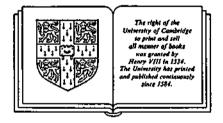
# Reference and computation

An essay in applied philosophy of language

#### AMICHAI KRONFELD

Senior Staff Scientist, Natural Language Incorporated

Foreword by JOHN SEARLE



#### CAMBRIDGE UNIVERSITY PRESS

CAMBRIDGE
NEW YORK PORT CHESTER
MELBOURNE SYDNEY

# Contents

List of figures Foreword Preface							
				ı	Met	hods and scope	1
					1.1	Internal and external perspectives	2
	1.2	Referring as planning	7				
	1.3		13				
	1.4	Summary of Chapter 1	15				
2	The	e descriptive approach	17				
	2.1	The problem of reference	17				
	2.2	The descriptive research program	20				
	2.3	Objections	26				
		The referential/attributive distinction	26				
		Away with meanings	28				
		In praise of singular propositions	30				
		The status of de re beliefs	32				
		Identification reconsidered	33				
	2.4	Motivation	33				
	2.5	Summary of Chapter 2	45				
3	First steps		47				
	3.1	Donnellan's distinction(s)	48				
	3.2	Having a particular object in mind	50				
	3.3	A three-tiered model of referring	57				
		Individuating sets	58				
		Referring intentions	60				
		Choice of referring expressions	61				

ix

### Contents

		Donnellan's distinction: final chord	62
	3.4	Summary of Chapter 3	65
4	Referring intentions and goals		
	4.1	Communication intentions	68
	4.2		71
	4.3	The discourse purpose of referring	75
	4.4	Summary of Chapter 4	82
5	Conversationally relevant descriptions		
	5.1	Speaker's reference and indirect speech acts	86
	5.2	Functional and conversational relevance	91
	5.3	Descriptions as implicatures	97
		Recognizing conversational relevance	100
		Speaker's assertion	101
		Extensional and intensional justification	102
		The meaning of "must"	106
		Nonassertives and indefinite descriptions	110
	5.4	Summary of Chapter 5	113
6	Thoughts and objects		116
	6.1		117
	6.2	The pragmatics of belief reports	123
		A conflict of interest	127
		The shortest spy revisited	129
		Causality and vividness	132
		Individuating sets and the descriptive view	134
	6.3	Summary of Chapter 6	137
7	Computational models		141
	7.1		141
	7.2		144
	7.3	Formalizing referring effects	149
		Mutual individuation	150
		Speech acts and rationality	156
		Referring and rationality	167
	7.4	Summary of Chapter 7	172
Re	References		
In	Index		