## Contents

1.	Crustaceans and Spiders			•	•	•		1
	<ul><li>A. Field Performance in Orientation</li><li>B. Experimental and Theoretical Analysis</li></ul>						•	_
2.	Locusts				•	•	•	13
	<ul><li>A. Field Performance in Orientation .</li><li>B. Experimental and Theoretical Analysis</li></ul>	•	• .					13 13
3.	Bees			•	•	•	•	17
	A. Field Performance in Orientation . B. Experimental and Theoretical Analysis							
4.	Butterflies			•	•			27
	<ul><li>A. Field Performance in Orientation</li><li>B. Experimental and Theoretical Analysis</li></ul>							
5.	Fishes	•		•		•	-	31
	<ul><li>A. Field Performance in Orientation</li><li>B. Experimental and Theoretical Analysis</li></ul>	•	•	•	•		•	31 37
6.	Amphibians		•		•	•		45
	<ul><li>A. Field Performance in Orientation</li><li>B. Experimental and Theoretical Analysis</li></ul>							
7.	Reptiles						•	47
	<ul><li>A. Field Performance in Orientation .</li><li>B. Experimental and Theoretical Analysis</li></ul>							
								ΧI



8. Birds	. 51
A. Field Performance in Orientation B. Experimental and Theoretical Analysis	. 51 . 55
9. Mammals	. 67
I. Bats	. 67 . 67 . 69
II. Whales	. 70 . 70 . 72
III. Terrestrial Mammals	
Conclusion	. 77
Appendix: Some Statistical Methods for the Analysis of Animal Orientation Data	of . 79
<ul><li>I. A One-Sample Test in Unimodal Distributions</li><li>II. A One-Sample Test in Bimodal or Multimodal Distributions</li></ul>	. 79 i-
butions	. 84
III. Two-Sample Tests	
IV. Multisample Tests	. 87
References	. 89
Subject Index	. 97