Contents

Abo	ut the Editor and Authors	•	•	.ix
Pre	face	•	•	xiii
PAR'	I 1 ASSESSMENT OF PAST AND PRESENT APPROACHES			
1	Limitations and Advances in Ecosystems ResearchEmilio F. Moran	•	•	. 3
2	Historical Origins of the Ecosystem Concept in BiologyFrank B. Golley		•	.33
3	Anthropology, Evolutionary Ecology, and the Explanatory Limitations of the Ecosystem ConceptEric Alden Smith		•	.51
4	The Ecosystem Concept in Archaeology Michael Jochim	•	•	.87
5	Human Biology and the Development of an Ecosystem ApproachMichael A. Little, Neville Dyson-Hudson, Rada Dyson-Hudson, James E. Ellis, David M. Swift		•	103
6	Environmental Events and the Ecology of Cumulative ChangeSusan H. Lees, Daniel G. Bates	•	•	133

	Contents
vrrr	concents

PART	2 NEW DIRECTIONS IN RESOLVING THE PROBLEM OF TIME AND OF BOUNDARY DEFINITION IN ECOSYSTEMS			
7	Trade, Environment, and the Reproduction of Local Systems in the Moluccas Roy F. Ellen			
8	Ecosystems over Time: The Study of Migration in "Long Run" Perspective John W. Adams, Alice Bee Kasakoff			
9	Reflections on an Alpine Village as EcosystemRobert McC. Netting			
PART	3 NEW DIRECTIONS IN RESOLVING THE PROBLEMS OF HIERARCHICAL LEVEL, SCALE, AND DATA COLLECTION			
10	Remote Sensing, Discovery, and Generalizations in Human Ecology-Francis Paine Conant			
11	Ecosystems and Methodological Problems in Ecological Anthropology Daniel R. Gross			
12	The Problem of Analytical Level Shifting in Amazonian Ecosystem Research Emilio F. Moran			
13	Ecosystems, Environmentalism, Resource Conservation, and Anthropological Research John W. Bennett			
Index				