

CONTENTS

<i>List of figures</i>	page ix
<i>List of tables</i>	xii
<i>Acknowledgements</i>	xiii
1 The archaeology of shell matrix sites	1
1.1 A brief archaeological history of human use of molluscs	1
1.2 Shells and archaeologists	2
1.3 Contemporary research	6
2 Shelled animals: biology and predation	16
2.1 The biology of shelled organisms	16
2.2 Predation	37
3 Taphonomy of shell and shell assemblages	53
3.1 Taphonomic processes active on individual shells	54
3.2 Taphonomy of groups of shells	70
3.3 Issues in archaeological excavation	85
3.4 Issues in archaeological laboratory analysis	89
3.5 Conclusions	97
4 Quantification of archaeological shell	99
4.1 Sampling	99
4.2 Quantifying shells	104
4.3 Summary	120
5 Paleoenvironmental reconstruction	122
5.1 Species ecology	122
5.2 Shell shape/size	134
5.3 Shell chemistry	138
5.4 Summary	142
6 Season of death	146
6.1 Demography	146
6.2 Oxygen isotopes	149
6.3 Incremental growth technique	152

viii	<i>Contents</i>	
	6.4 Summary	173
7	Dietary reconstruction	175
	7.1 Ethnographies and molluscan flesh use	175
	7.2 Indirect methods of estimating the role of molluscs in human diet	183
	7.3 Assaying shellfish contribution to the diet using bone chemistry	191
	7.4 Summary	194
8	The shell artifact	196
	8.1 Shell artifact production and analysis	196
	8.2 Shell symbolism	203
	8.3 Movement of shell	212
	8.4 Summary	218
9	Shells and social organization	220
	9.1 Organization of work	220
	9.2 Political institutions	228
	9.3 Trade	233
	9.4 Conclusion	235
	<i>References</i>	236
	<i>Index of taxa</i>	260
	<i>Subject index</i>	263