## Contents

Preface 9

1. Introduction 11

2. Functional Analysis – Methods and Techniques 15
   2.1 Introduction 15
   2.2 Usewear traces 15
      2.2.1 Flint and hard stone 15
      2.2.2 Shell 16
   2.3 Taphonomic processes and post-depositional modifications 19
      2.3.1 Flint and hard stone 19
      2.3.2 Shell 19
   2.4 Functional analysis in the Caribbean area 21
      2.4.1 Flint and hard stone 21
      2.4.2 Shell 21
   2.5 Sampling 21
   2.6 Registration 22
      2.6.1 Flint and hard stone 22
      2.6.2 Shell 23
   2.7 Instruments 25
   2.8 Cleaning 26
      2.8.1 Flint and hard stone 26
      2.8.2 Shell 27
   2.9 Levels of interpretation 27

3. The processing of raw materials: ethnohistorical, ethnographical, archaeological and experimental data 29
   3.1 Methods and data sources 29
      3.1.1 Analogical reasoning and experimental archaeology 29
      3.1.2 Ethnohistory and ethnography 29
      3.1.3 Archaeology 30
      3.1.4 Experiments 31
   3.2 Plants 32
      3.2.1 Ethnohistory and ethnography 32
         3.2.1.1 Wild edible plants 32
         3.2.1.2 Cultivated crops 32
         3.2.1.3 Containers 33
         3.2.1.4 Leaves and fibres 33
         3.2.1.5 Colorants and medicine 35
         3.2.1.6 Poison 35
      3.2.2 Archaeology 36
      3.2.3 Experiments 36
         3.2.3.1 Non-siliceous plant: tubers 37
         3.2.3.2 Non-siliceous plants: soft plants 38
         3.2.3.4 Siliceous plants: reeds and liana 39
         3.2.3.5 Plants: summary 40
   3.3 Wood: logs and branches 42
## Contents

3.3.1 Ethnohistory and ethnography
  3.3.1.1 Houses and canoes
  3.3.1.2 Fuel
  3.3.1.3 Fire makers and torches
  3.3.1.4 Other purposes
3.3.2 Archaeology
3.3.3 Experiments
  3.3.3.1 Wood: roots and branches
  3.3.3.2 Wood: logs
3.4 Animal material: hides, meat and bones
  3.4.1 Ethnohistory and ethnography
  3.4.2 Archaeology
  3.4.3 Experiments
    3.4.3.1 Hide working traces
    3.4.3.2 Traces of bone working
    3.4.3.3 Fish working traces
3.5 Mineral, coral and shell
  3.5.1 Ethnohistory and ethnography
  3.5.2 Archaeology
  3.5.3 Experiments
    3.5.3.1 Clay
    3.5.3.2 Shell and coral
3.6 Concluding remarks

4. Anse à la Gourde
  4.1 Introduction to the site
    4.1.1 Geographical setting
    4.1.2 History of research
    4.1.3 Environmental history
    4.1.4 Archaeological data
  4.2 Shell artefacts
    4.2.1 Ornaments
      4.2.1.1 Beads and pendants
      4.2.1.2 Adornments
      4.2.1.3 Three-dimensional objects
    4.2.2 Tools
      4.2.2.1 Bivalve shells
      4.2.2.2 Celts (Fig. 4.23)
      4.2.2.3 Other tools
    4.2.3 The distribution and context of shell artefacts
    4.2.4 Shell artefacts, a summary
  4.3 Flint and stone artefacts
    4.3.1 Flint artefacts
    4.3.3 Hard stone implements (Fig. 4.37-4.45)
    4.3.4 Hard stone and flint artefacts, a summary
  4.4 Coral artefacts
  4.5 Secondarily used pottery sherds
  4.6 Conclusions
    4.6.1 The production of tools and ornaments
## CONTENTS

4.6.2 Tools and their functionality

5. **Morel**
   5.1 Introduction to the site
      5.1.1 Geographical setting and environmental history
      5.1.2 History of research
      5.1.3 Archaeological data
   5.2 Shell artefacts
      5.2.1 Shell ornaments
         5.2.1.1 Beads and pendants
         5.2.1.2 Adornments
         5.2.1.3 Three-dimensional objects
      5.2.2 Tools (Fig. 5.2)
         5.2.2.1 Bivalve shell tools
         5.2.2.2 Celts and chisels
         5.2.2.3 Cylinder-shaped hafts
         5.2.2.4 Fishhook
      5.2.3 Artefacts without context, Museum Edgar Clerc
         5.2.3.1 Ornaments (Fig. 5.7)
         5.2.3.2 Tools
      5.2.4 Summary
   5.3 Flint tools
      5.3.1 Worked materials and motions
      5.3.2 Typology versus function
   5.4 Hard stone tools
      5.4.1 Celts and fragments of celts
      5.4.2 Unmodified large pebbles with traces of use
      5.4.3 Combination tools
      5.4.4 Small pebbles
      5.4.5 Ornaments
   5.5 Coral and pottery tools
      5.5.1 Coral tools
      5.5.2 Secondarily used sherds (Fig. 5.19)
   5.6 Conclusions

6. **Towards an integral approach in the Lesser Antilles**
   6.1 Introduction
   6.2 The possibilities and limitations of functional analysis
      6.2.1 Low and high power, form and function
      6.2.2 The so-called recurrent forms
      6.2.3 Methodological observations
   6.3 The choice of raw materials for tool and ornament production
   6.4 Domestic activities and craft specialization through time (Fig. 6.1)
      6.4.1 The production of tools
      6.4.2 Subsistence activities
      6.4.3 Symbolic artefacts and ornaments
      6.4.4 Summary
   6.5 Suggestions for further research
## CONTENTS

References 147  
Appendix 1: Code-list use-wear traces 167  
Appendix 2: Shell artefact description, variables and possible entries 169  
Samenvatting (Dutch summary) 171  
List of figures 175  
List of tables 177  
List of appendices 177  
Acknowledgements 179  
Curriculum Vitae 181