Every year hundreds of human skeletal remains are brought to the surface by engineering works, quarrying or planned archaeological explorations. These remains provide vital clues to unravelling man's antiquity – their position and location, relation to other remains, state of preservation and 'medical' condition all provide important information on ancient man and his living environment. Inferences regarding length of life, nutritional standards, diseases and origin of injuries can all be made in bones that are thousands of years old. However, many

of these features are open to interpretation and the information gained is only as good as the records and analysis made at that time. The purpose of this book is to describe the many techniques now available for the proper excavation, preparation and analysis of human skeletal remains, so that the most effective use can be made of them. As such it will prove invaluable to both amateur and professional archaeologists, students of anthropology and anatomy, and the layman who has an interest in his ancestors modus vivendi.



Contents

| 1 | Notes for guidance in excava | ating and | rep | orting on human remains | |
|-----|--|--------------|----------------------|--|-----------|
| 1 | The site of discovery | page 1 | 9 | Soils and preservation of bones | page 7 |
| 2 | Place of burial | umap1 | 10 | Cleaning bones | 8 |
| 3 | Types of burial | 2 | 11 | Use of consolidants | 9 |
| 4 | The process of excavation | 2 | 12 | Pressure impregnation | 11 |
| 5 | Samples for analysis | 4 | 13 | Reconstruction of bones | 11 |
| 6 | Photographing bones in the field | 6 | 14 | Burnt bones | 14 |
| 7 | Labelling and numbering | 6 | 15 | Mixed bones | 16 |
| 8 | Packing and transport | 7 | 16 | The nature of bone | 18 |
| 11 | Description and study of hu | man bone | es | | |
| 1 | The bones of the skeleton | 21 | 5 | The teeth | 51 |
| 2 | The differentiation of human from | OI ALIDE | | Value of X-rays in studying bones | |
| 4 | other larger mammal bones | 36 | | and teeth | 55 |
| 3 | Cranial sutures | 43 | 7 | Microscopy and electron microscopy | 56 |
| 4 | Deformation of bones | 48 | | ministrativa in a solar gravita determin | |
| 111 | Demographic aspects of ske | eletal biol | ogy | fenorine of the lited son's complex ideal and how stuck is stored | |
| 1 | | 59 | | Microscopic methods of age | |
| 1 | Sexing skeletons Estimation of age | 64 | parti | determination | 73 |
| 2 | Dental -attrition | 71 | 5 | Palaeodemography | 73 |
| IV | Measurement and morpholo | ogical ana | alysi | s of human bones | |
| 200 | | 77 | 13 | Statistical methods | 102 |
| 1 | Measuring the bones Points or 'landmarks' of the skull | 79 | 14 | The problem of unreliability in | |
| 2 | Skull measurements | 82 | CLIN | samples | 106 |
| 3 | Measuring cranial capacity | 84 | 15 | | 107 |
| 4 | The measurement of teeth | 84 | 16 | What can be deduced from a single | 9. |
| 5 | Post-cranial measurements | 85 | alites | skull | 108 |
| 7 | Skeletal indices | 87 | 17 | The question of family relationships | 109 |
| 8 | Platymeria and platycnemia | 88 | 18 | Teeth and archaeology | 111 |
| 9 | Squatting facets | 90 | 19 | Variations in tooth number | 111 |
| 10 | The value of non-metrical data | 90 | 20 | Variation in tooth position | 114 |
| 11 | Estimation of stature | 100 | 21 | Abnormalities of tooth form and size | 114 |
| 12 | Body form and the skeleton | 102 | 1971.72 2 7 7 8 8 | | |
| V | Injuries and marks on bone | ontend | alia Aus | ne curing the post conflict cases as | elettese. |
| 794 | | ALTER OF THE | 3 | Tooth evulsion | 126 |
| 1 | Interpretation of bone injuries | 119 | 4 | | 126 |
| | (trauma) | 120 | | SOUTH AND CHARGE OF OUR WORLD | |
| 2 | Trephining or trepanning | 120 | | | |

Contents continued

Index

| / | Ancient disease | | | | |
|------|---------------------------------|-----|-------------|-------------------------------------|-----|
| 1 | Introduction | 127 | 10 | Skeletal deformities | 161 |
| 2 | Classification of bone diseases | 128 | 11 | Abnormalities due to endocrine | |
| 3 | Inflammation of bone | 128 | | disorders | 161 |
| 4 | Evidence of tuberculosis | 129 | 12 | Effect of diet on bone | 163 |
| 5 | Evidence of treponematoses | 134 | 13 | Bone changes associated with blood | |
| 6 | Evidence of leprosy | 138 | | disorders | 165 |
| 7 | Bone tumours | 139 | 14 | Bone affections of uncertain origin | 166 |
| 8 | Diseases of joints (arthritis) | 143 | 15 | Congenital defects or abnormalities | 167 |
| 9 | Diseases of the jaws and teeth | 151 | 16 | Abnormal skull form | 172 |
| | | | 17 | Giants, dwarfs and illusions | 173 |
| /11 | Concluding remarks | 175 | | naislain ait to sened at I | |
| /111 | Bibliography | 179 | 36 au 43 | | |
| | | | | | |

201