

图书基本信息

书名：<<用于生命科学的形态计量学MORPHOMETRICS FOR THE LIFE SCIENCES>>

13位ISBN编号：9789810236106

10位ISBN编号：9810236107

出版时间：2000-12

出版时间：东南大学出版社

作者：Lestrel, Pete E.

页数：261

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## 内容概要

The idea of form is one of the most fundamental concepts underlying all of the sciences. Our visual system is so well developed that we are able to effortlessly classify and compare visual images. What is not so well developed has been our ability to measure this visual information. This book examines a number of recent approaches currently in use to numerically characterize the biological form. It presents a unique overview of these methods, starting with a review of measurement set in a historical framework. The book will be of interest to graduate students in addition to a wide range of researchers, including those in the specialized fields of human biology, growth and development, orthodontics, botany, biology, ecology, zoology, as well as dentistry and medicine.

书籍目录

PrologueContentsList of FiguresList of TablesAcknowledgmentsPART ONE: THEORETICAL BACKGROUND

1. INTRODUCTION TO MORPHOMETRICS 1.1. INTRODUCTION 1.1.1. The Visual Process  
1.1.2. A Dual View of the World 1.2. THE ISSUE OF QUANTIFICATION 1.2.1. What is Morphometrics?  
1.2.2. From Morphology to Process 1.3. CONTENTS OF THIS VOLUME 1.4. A NOTE TO THE  
READER KEY POINTS OF THE CHAPTER CHECK YOUR UNDERSTANDING  
REFERENCES CITED 2. AN INTRODUCTION TO RESEARCH METHODS 2.1.  
INTRODUCTION 2.1.1. Definitions of Science 2.1.2. The Scientific Method 2.2. LIMITATIONS OF  
SCIENCE 2.2.1. Ethical Considerations 2.2.2. Principle of Independence 2.3. SOME STATISTICAL  
CONSIDERATIONS 2.3.1. Bias toward the Use of Statistics 2.3.2. Types of Research Studies 2.4. THE  
RESEARCH PLAN 2.4.1. Initial Steps 2.4.2. Collection and Data Analysis 2.4.3. Some Other  
Requirements 2.5. THE PROCEDURAL ENDEAVOR 2.5.1. From the Literature Search to Hypotheses  
2.5.2. The Research Design 2.5.3. Research Results 2.6. THE DOCUMENTATION ENDEAVOR  
2.6.1. Introductory Material 2.6.2. Materials and Methods 2.6.3. Results and Conclusions  
2.7. SOME FINAL COMMENTS KEY POINTS OF THE CHAPTER CHECK YOUR  
UNDERSTANDING REFERENCES CITED 3. A HISTORY OF SCIENTIFIC MEASUREMENT 3.1.  
INTRODUCTION 3.1.1. Precursors of Science 3.1.2. Development of Language 3.2. EARLY  
BEGINNINGS OF MEASUREMENT 3.2.1. The First Civilization: Mesopotamia 3.2.2. Egyptian,  
Roman and Later Accomplishments 3.2.3. Developments on the Indian Subcontinent 3.2.4. Rise of  
Chinese Civilization 3.3. GREEK AND ROMAN SCIENCE 3.3.1. The Pre-Socratics 3.3.2.  
From Pythagoras to Democritus 3.3.3. Platonic and Aristotelian Philosophy 3.3.4. Greco-Roman  
Achievements 3.4. THE HELLENISTIC PERIOD INTO MEDIEVALISM 3.4. I. The Islamic  
Contribution 3.4.2. Early Medieval Philosophical Developments 3.4.3 The Ptolemaic Worldview  
3.5. FROM THE RENAISSANCE TO THE ENLIGHTENMENT 3.5.1. The Copernican Revolution  
3.5.2. Developments Leading to Newton and Beyond.....PART TWO:MORPHOMETRIC  
TECHNIQUESEPILOGUEAPPENDIX I.EFF23:A COMPUTER PROGRAMAPPENDIX II.EFF23 PROGRAM  
FLOWCHARTSINDEX

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>