

**Springer Series  
in Statistics**

**Christopher G. Small**

**The Statistical  
Theory of Shape**



**Springer**

# Statistical Theory Of Shape

**Juan A. Barceló, Maurizio Forte, Donald  
H. Sanders**

## Statistical Theory Of Shape:

*The Statistical Theory of Shape* Christopher G. Small, 2012-12-06 In general terms the shape of an object data set or image can be defined as the total of all information that is invariant under translations rotations and isotropic rescalings Thus two objects can be said to have the same shape if they are similar in the sense of Euclidean geometry For example all equilateral triangles have the same shape and so do all cubes In applications bodies rarely have exactly the same shape within measurement error In such cases the variation in shape can often be the subject of statistical analysis The last decade has seen a considerable growth in interest in the statistical theory of shape This has been the result of a synthesis of a number of different areas and a recognition that there is considerable common ground among these areas in their study of shape variation Despite this synthesis of disciplines there are several different schools of statistical shape analysis One of these the Kendall school of shape analysis uses a variety of mathematical tools from differential geometry and probability and is the subject of this book The book does not assume a particularly strong background by the reader in these subjects and so a brief introduction is provided to each of these topics Anyone who is unfamiliar with this material is advised to consult a more complete reference As the literature on these subjects is vast the introductory sections can be used as a brief guide to the literature

**A Statistical Theory of Shape** R. Berthilsson, 1997      **Shape and Shape Theory** D. G. Kendall, D. Barden, T. K. Carne, H. Le, 2009-09-25 Shape and Shape Theory D G Kendall Churchill College University of Cambridge UK D Barden Girton College University of Cambridge UK T K Carne King's College University of Cambridge UK H Le University of Nottingham UK The statistical theory of shape is a relatively new topic and is generating a great deal of interest and comment by statisticians engineers and computer scientists Mathematically shape is the geometrical information required to describe an object when location scale and rotational effects are removed The theory was pioneered by Professor David Kendall to solve practical problems concerning shape This text presents an elegant account of the theory of shape that has evolved from Kendall's work Features include A comprehensive account of Kendall's shape spaces A variety of topological and geometric invariants of these spaces Emphasis on the mathematical aspects of shape analysis Coverage of the mathematical issues for a wide range of applications The early chapters provide all the necessary background information including the history and applications of shape theory The authors then go on to analyse the topic in brilliant detail in a variety of different shape spaces Kendall's own procedures for visualising distributions of shapes and shape processes are covered at length Implications from other branches of mathematics are explored along with more advanced applications incorporating statistics and stochastic analysis Applied statisticians applied mathematicians engineers and computer scientists working and researching in the fields of archaeology astronomy biology geography and physical chemistry will find this book of great benefit The theories presented are used today in a wide range of subjects from archaeology through to physics and will provide fascinating reading to anyone engaged in such research Visit our web page

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## **Table of Contents Statistical Theory Of Shape**

1. Understanding the eBook Statistical Theory Of Shape
  - The Rise of Digital Reading Statistical Theory Of Shape
  - Advantages of eBooks Over Traditional Books
2. Identifying Statistical Theory Of Shape
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Statistical Theory Of Shape
  - User-Friendly Interface
4. Exploring eBook Recommendations from Statistical Theory Of Shape
  - Personalized Recommendations
  - Statistical Theory Of Shape User Reviews and Ratings
  - Statistical Theory Of Shape and Bestseller Lists

5. Accessing Statistical Theory Of Shape Free and Paid eBooks
  - Statistical Theory Of Shape Public Domain eBooks
  - Statistical Theory Of Shape eBook Subscription Services
  - Statistical Theory Of Shape Budget-Friendly Options
6. Navigating Statistical Theory Of Shape eBook Formats
  - ePUB, PDF, MOBI, and More
  - Statistical Theory Of Shape Compatibility with Devices
  - Statistical Theory Of Shape Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Statistical Theory Of Shape
  - Highlighting and Note-Taking Statistical Theory Of Shape
  - Interactive Elements Statistical Theory Of Shape
8. Staying Engaged with Statistical Theory Of Shape
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Statistical Theory Of Shape
9. Balancing eBooks and Physical Books Statistical Theory Of Shape
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Statistical Theory Of Shape
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Statistical Theory Of Shape
  - Setting Reading Goals Statistical Theory Of Shape
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Statistical Theory Of Shape
  - Fact-Checking eBook Content of Statistical Theory Of Shape
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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