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Nota di bibliografia	Includes bibliographical references (p. [293]-297) and index.
Nota di contenuto	Shape and Shape Theory; Contents; Preface; Chapter 1 Shapes and Shape Spaces; 1.1 Origins; 1.2 Some preliminary observations; 1.3 A matrix representation for the shape of a k-ad; 1.4 'Elementary' shape spaces k1 and k2; 1.5 The Fubini-Study metric on k2; 1.6 The proof of Casson's theorem; Chapter 2 The Global Structure of Shape Spaces; 2.1 The problem; 2.2 When is a space familiar; 2.3 CW complexes; 2.4 A cellular decomposition of the unit sphere; 2.5 The cellular decomposition of shape spaces; 2.6 Inclusions and isometries; 2.7 Simple connectivity and higher homotopy groups 2.8 The mapping cone decomposition 2.9 Homotopy type and Casson's theorem; Chapter 3 Computing the Homology of Cell Complexes; 3.1 The orientation of certain spaces; 3.2 The orientation of spherical cells; 3.3 The boundary of an oriented cell; 3.4 The chain complex, homology and cohomology groups; 3.5 Reduced homology; 3.6 The homology exact sequence for shape spaces; 3.7 Applications of the exact sequence; 3.8 Topological invariants that distinguish between shape spaces; Chapter 4 A Chain Complex for Shape Spaces; 4.1 The chain

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 4.3 The boundary map in the chain complex
 4.4 Decomposing the chain complex; 4.5 Homology and cohomology of the spaces; 4.6
 Connectivity of shape spaces; 4.7 Limits of shape spaces; Chapter 5
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 space; 5.2 Spaces of shapes in 3-space; 5.3 Spaces of shapes in 4-
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 space; 5.7 Decomposing the essential complexes; 5.8 Closed formulae
 for the homology groups; 5.9 Duality in shape spaces
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 distributions in a compact convex set
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 distributions in a convex polygon. I: the singular tessellation

Sommario/riassunto

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 p
