



# Generalized Curvatures (Geometry and Computing, Vol. 2)

*Jean-Marie Morvan*

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The central object of this book is the measure of geometric quantities describing  $N$  a subset of the Euclidean space  $(E, \cdot)$ , endowed with its standard scalar product. Let us state precisely what we mean by a geometric quantity. Consider a subset  $N \subseteq S$  of points of the  $N$ -dimensional Euclidean space  $E$ , endowed with its standard  $N$  scalar product. Let  $G$  be the group of rigid motions of  $E$ . We say that a  $0$  quantity  $Q(S)$  associated to  $S$  is geometric with respect to  $G$  if the corresponding  $0$  quantity  $Q[g(S)]$  associated to  $g(S)$  equals  $Q(S)$ , for all  $g \in G$ . For instance, the  $0$  diameter of  $S$  and the area of the convex hull of  $S$  are quantities geometric with respect to  $G$ . But the distance from the origin  $O$  to the closest point of  $S$  is not,  $0$  since it is not invariant under translations of  $S$ . It is important to point out that the property of being geometric depends on the chosen group. For instance, if  $G$  is the  $1 \times N$  group of projective transformations of  $E$ , then the property of  $S$  being a circle is geometric for  $G$  but not for  $G$ , while the property of being a conic or a straight  $0 \times 1$  line is geometric for both  $G$  and  $G$ . This point of view may be generalized to any  $0 \times 1$  subset  $S$  of any vector space  $E$  endowed with a group  $G$  acting on it.

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