

INEQUALITIES FOR L_p -DUAL AFFINE SURFACE AREA

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Abstract. According to the notion of L_p -affine surface area which was defined by Lutwak, in this paper, we introduce the concept of L_p -dual affine surface area. Further, we establish the affine isoperimetric inequality and the Blaschke-Santaló inequality for L_p -dual affine surface area. Besides, the dual Brunn-Minkowski inequality for L_p -dual affine surface area is presented.

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