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Petty Projection Inequality for L_p-Mixed Projection Body

王卫东(1)，冷岗松(2)

(1)湖北民族学院数学系; (2)上海大学数学系

摘要

关键词   petty projection inequality L_p-projection body L_p-mixed projection body L_p-centroid body L_p-mixed quermassintegrals

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The Petty Projection Inequality for L_p-Mixed Projection Bodies

Wei Dong WANG(1), Gang Song LENG(2)

(1)Department of Mathematics, Shanghai University, Shanghai 200436; (2)Department of Mathematics, Shanghai University, Shanghai 200444

Abstract Recently, Lutwak, Yang and Zhang posed the notion of L_p-projection body and established the L_p-analog of the Petty projection inequality. In this paper, the notion of L_p-mixed projection body is introduced---the L_p-projection body being a special case. The Petty projection inequality, as well as Lutwak's quermassintegrals (L_p-mixed quermassintegrals) extension of the Petty projection inequality, is established for L_p-mixed projection body.

Key words   petty projection inequality L_p-projection body L_p-mixed projection body L_p-centroid body L_p-mixed quermassintegrals

通讯作者 王卫东 wdwxh722@163.com

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