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Chien-Hao Huang, Yu-Lin Chang, Jein-Shan Chen, The P-class and Q-class functions on symmetric cones

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**Abstract.** In this paper, we investigate the functions of P-class and of Q-class associated with symmetric cones. We provide the characterizations for P-class functions on symmetric cones, and discuss the relationship between P-class functions and monotone functions in the setting of symmetric cones. In addition, we also discuss the sufficient conditions for Q-class functions being monotone in the setting of symmetric cones.

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