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Jin Liang* (jinliang@sjtu.edu.cn), Department of Mathematics, Shanghai Jiao Tong University, Shanghai, Shanghai 200240, Peoples Rep of China. *Relations among weighted power means functions.*

We investigate the basic properties of weighted power means functions and their applications. Our main purpose is to find new relations among some weighted power means associated to different sequences of weights. A general comparison theorem is presented. Moreover, we apply the abstract result to the theory of operator inequalities and give some new operator inequalities. (Received August 19, 2015)