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Jack Schmidt* (jack@ms.uky.edu), Department of Mathematics, 715 Patterson Office Tower,
Lexington, KY 40506-0027. *Rewriting systems for a family of perfect groups.*

Rewriting systems are used to efficiently find and analyze families of perfect groups analogous to p -groups of maximal class. Computer calculations are quite effective with this method and are used to give evidence and counterexamples to various generalizations of the theory of p -groups of maximal class to these families of perfect groups. (Received January 05, 2007)