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J Kyle Pula* (jpula@du.edu), Department of Mathematics, University of Denver, 2360 S. Gaylord St, Denver, CO 80208. *Complete Mappings of Finite Moufang Loops.*

A complete mapping of a loop (Q, \cdot) is a permutation π of Q such that the map $x \mapsto x \cdot \pi(x)$ is also a permutation. Over the past 50 years, a rich body of work has developed to sort out the necessary and sufficient conditions for existence of complete mappings of finite groups. We prove that these same conditions hold in several classes of finite Moufang loops and discuss the prospects for further extensions. (Received August 30, 2010)