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Vrej A Zarikian* (zarikian@usna.edu), 572C Holloway Road, U. S. Naval Academy, Annapolis, MD 21402. *Alternating-Projection Algorithms for Operator-Theoretic Calculations.*

We show how alternating-projection algorithms can be used to solve a variety of finite-dimensional operator-theoretic problems, including deciding complete positivity, computing completely bounded norms, and computing norms of Schur multipliers. Time-permitting, we present applications to free group C^* -algebras and free products of matrix algebras. (Received February 07, 2006)