

Abstract Submitted  
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**Injection pumps** WILLIAM SCHULTZ, BOSUK HAN, ERIC JOHNSEN, University of Michigan — Injection pumps are simple devices with no moving parts but with complex flow including free-shear and boundary layers combined with shocks and possible multiphase flow. In spite of this, they are susceptible to simple control volume analyses. Here, we examine the extent to which these analyses represent optimal performance for a steam injector. We develop performance measures for 2D RANS computations and experiments.

William Schultz  
University of Michigan

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