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Study of equation of state and equilibrium mixtures CHRISTOPHER TICKNOR, STEPHEN ANDREWS, Los Alamos National Laboratory, DARIO PANICI, Nuclear, Plasma, and Radiological Engineering, University of Illinois at Urbana-Champaign, CURTIS PETERSON, Deprtment of Physics and the Department of Mathematical and Statistical Sciences, Arizona State University, VIKTOR TURNER, Department of Physics, The United States Naval Academy, JEFFERY LEIDING, Los Alamos National Laboratory — We look at progress made in high explosive equation of state modeling at LANL. We present results on chemical equilibrium solvers used to study the evolution of a products equation of state. We will also present results for systematically improving the EOS parameters and models. In particular we look at polar molecules and their mixtures including ammonia and water systems.

Christopher Ticknor
Los Alamos National Laboratory

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