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Farhan Abedin*, Michigan State University, Department of Mathematics, 619 Red Cedar Road, C212 Wells Hall, East Lansing, MI 48824, and **Cristian Gutierrez**, Temple University, Department of Mathematics, 1022 Wachman Hall, Philadelphia, PA 19122. *An Iterative Method for Generated Jacobian Equations.*

I will describe an iterative algorithm for constructing approximate weak solutions to generated Jacobian equations (GJEs). Introduced by Trudinger, GJEs are general enough to include as special cases problems from optimal mass transport and geometric optics. The iterative method considered here is inspired by earlier work of Caffarelli, Kochengin and Oliker on the reflector problem. We will focus on identifying minimal structural requirements on the GJEs that guarantee convergence of the iteration in a finite number of steps. (Received August 09, 2018)