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Analytical Integral Solution of Inverse Lagrangian Problems via Heaviside Operational Schemes VALENTINO A. SIMPAO, Mathematical Consultant Services, Greenville, KY 42345 — In this brief note, a relatively straightforward method for exact integral solution of ILP [Inverse Lagrangian Problems] is presented. An exact quadrature solution (i.e., Lagrangian) of the Inhomogeneous Lagrange Equation [ILE] is constructed for given inhomogeneous term of arbitrary dependence upon its arguments, via Heaviside operational schemes. Thus an inverse ILE problem is solved: a Lagrangian obtains in the form of an integral of the arbitrarily prescribed inhomogeneous term.

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