

1096-VL-2635 **Alrazi M Abdeljabbar*** (alrazia@yahoo.com), 10875 Abercorn St. Apt#712, Savannah, GA 31419. *Double Wronskian Solutions for a Generalized (2+1)-Dimensional Boussinesq System with Variable Coefficients.*

The Wronskian technique has been applied to many soliton equations such as the KdV, MKdV, NLS, derivative NLS, KP, sine-Gordon and sinh-Gordon equations. Within Wronskian formulations, soliton solutions and rational solutions are usually expressed as some kind of logarithmic derivatives of Wronskian type determinants and the determinants involved are made of eigenfunctions satisfying linear systems of differential equations. This connection between nonlinear problems and linear ones utilizes linear theories in solving soliton equations. A double Wronskian solution will be given for a Generalized (2+1)-dimensional Boussinesq system with variable coefficients. (Received September 17, 2013)