

1116-VC-1290      **Alrazi M Abdeljabbar\*** (aabdeljabbar@pi.ac.ae), The Petroleum Institute, P.O Box 2533, Abu Dhabi, United Arab Emirates. *Applications of the Pfaffain technique to (3+1)-dimensional soliton equations of KP type.*

Based on Hirota bilinearization method, the Pfaffain technique is employed to construct an explicit exact solutions to 3+1- dimensional nonlinear partial differential equations of KP type with variable coefficients. Pfaffainization procedure will also be applied to extend such equations to a new coupled systems. (Received September 18, 2015)