

Application to Differential Transform Method for MHD Fluid Flow and Heat Transfer

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Abstract: Present study reveals the flow of a classical non-Newtonian fluid based on the Williamson model through a vertical flat plate. The free convective flow is generated because of the effect of buoyancy relating to the temperature. In addition to that, the influence of thermal radiation and heat source/sink in conjunction with the dissipative heat enhances the efficiency of transport phenomenon within the bounding surface. Well-proposed similarity transformation is used to transform the governing equation into ordinary. However, due to the dissipation, the nonlinear coupled problems are complex. For the solution, a semi-analytical approach such as differential transformation method (DTM) in association with the Padé approximant method is used instead of traditional numerical technique. Padé-approximant is useful to get a non-iterative solution without imposing the missing boundary conditions. It is a simple and effective way to determine the solutions of complex nonlinear problems with assumed boundary conditions at infinity. The physical significance of all the contributing parameters distinguished the flow properties are achieved and accessible graphically. Moreover, the validation of the present methodology with the traditional numerical technique is obtained, showing an excellent correlation in particular cases.

Keywords: Williamson model; Free convection; thermal radiation; Heat transfer; DTM-Padé method

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1. Introduction

Body forces on fluid create natural convection flow problems that are frequently come across in fluid engineering. Such natural convection problems may be taken as convection flow about a plane surface, kept along the direction of the force. One of the cases was analyzed by Schmidt and Beckmann [1], considering the convection of air through a vertical surface in the existence of the earth's gravitational field. The impact of the magnetic field upon an electro-conductive fluid affecting the natural convection is generally experienced in aerospace engineering, design of nuclear reactors, and so many engineering applications. The heat transport phenomena of an electro-conductive non-Newtonian liquid through the surface via the interaction of magnetic field is analyzed by Mishra *et al.* [2]. Considering the impact of reacting species and non-uniformity in heat sources, they found that the applied magnetic field

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web feb 14 2013 it s 300 because if i remember right the knock sensor is behind the exhaust manifold so you have to pull all of the heat shielding out remove the exhaust manifold replace the gasket then replace the sensor

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web feb 22 2014 has anyone ever found a diy write up or video for replacing knock sensor 2 on a 1 8t would love to see how it s done before i undertake the project all of my searches have come up empty

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web mar 7 2014 cylinders 4 5 and 6 is the front knock sensor 2 so basically you started off by replacing the wrong knock sensor the one at the rear by the exhaust is knock sensor 1 for cylinders 1 2 and 3 something is going on with either cylinder 4 5 or 6 check your injectors and test them if you can

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web sep 29 2006 so i ve had a cel for months now started off giving codes of random misfiring and after replacing plugs wires and coilpack still got the same codes

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web jan 24 2013 the knock codes your engine can generate are 16711 p0327 knock sensor 1 g61 signal too low check knock sensor possible symptoms irregular rpm driveability problems loss of power engine damage possible causes circuit g61 short to ground circuit g61 open g61 improperly torqued g61 damaged control module

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web jun 12 2023 unfortunately the easiest and quickest way to replace both sensors is to remove the fuel rail and intake manifold please see our articles on how to perform this work note you will need a special torque wrench to properly torque

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web anonymous contributor 2 answers on a 2006 vw beetle 2 5l 5 cylinder here in usa have 2 knock sensors the connector colors are green and grey and mounted staggered near each other at the rear of engine

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