

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 *iowa test of basic skills faq* who takes the itbs in january springmont administers the iowa test of basic skills itbs to lower and upper elementary children who are at least age 8 by september 1 2017 this is the only standardized test administered annually at springmont and all eligible students are expected to participate

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the iowa assessments previously the iowa test of basic skills and originally iowa every pupil test of basic skills also known informally as the iowa tests formerly known as the itbs tests or the iowa basics are standardized tests provided as a service to schools by the college of education of the university of iowa developers everett franklin lindquist harry greene ernest horn maude mcbroom and herbert spitzer first designed and administered the tests in 1935 a

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web *itbs iowa test of basic skills test format* in the itbs exam the students are tested over the subjects and their skills in reading language arts mathematics social studies

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web students in level 7 and up may be required to complete a science portion of the itbs iowa assessment the three main content areas include life science earth and space science

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in the mathematics concepts and estimation section students will be given math problems that will test their understanding of see more

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web the iowa test of basic skills itbs is a series of standardized tests distributed by the college of education of the university of iowa these tests are designed to assess

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in the reading section students are given a passage to read followed by several questions about the passage the student must read the passage and then answer the questions by selecting the answer that best answers the question from the choices

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in the written expression section students are tested on their writing skills sentence structure grammar and usage verb tense and punctuation there are two types of questions in this section the first type of question is similar to see more

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web the itbs test also known as the iowa test of basic skills is a nationally administered set of exams designed to assess the

abilities of students subjects tested include language

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in the science section each question is designed to test a student s understanding of science students must choose the best answer for each question sample question choices see more

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web overview of the iowa tests the iowa tests of basic skills are a series of norm referenced measures that assess student achievement in kindergarten through grade 8

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web the iowa tests of basic skills itbs offer educators a diagnostic look at how their students are progressing in key academic areas

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in the social studies section students are tested on their knowledge of social studies the social studies section is divided into 4 sections civics government see more

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web the davidson institute has partnered with northwestern university s center for talent development ctd to offer a davidson specific above grade level version of the iowa test of basic skills for 3rd 5th graders this davidson specific testing opportunity is limited to the dates listed on the eligibility assessment page

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