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Chemical reaction in the catalyst bed reactor design heterogeneous reaction

In this paper, our aims are accuracy, capabilities and power at solving of the complex non-linear differential at the reaction chemical in the catalyst reactor (heterogeneous reaction). Our purpose is to enhance the ability of solving the mentioned nonlinear differential equations at chemical engineering and similar issues with a simple and innovative approach which entitled "Akbari-Ganji's Method" or "AGM". In this article, we proved that with this new method, all kinds of complex practical problems related to nonlinear differential equations can be easily solved analytically for chemical reactors design. Obviously, most of the phenomena in dynamics and aerodynamics are nonlinear, so it is quite difficult to study and analyze nonlinear mathematical equations in this area; also we wanted to demonstrate the strength, capability and flexibility of the new AYM method (Akbari-Yasna Method). This method is newly created and it can have high power in analytical solution of all kinds of industrial and practical problems in engineering fields and basic sciences for complex nonlinear differential equations.

Biography

Mohammad Reza Akbari has completed PhD in Civil Engineering (Structural) and Chemical Engineering (Refining), Tehran University, Tehran, Iran. He is Specialized in innovator a method for Analytical Solving Nonlinear Differential Equations (Coupled Nonlinear Differential Equations, PDE, ODE) in the all Engineering fields which is entitled "AGM" so it is abbreviation Akbari-Ganji Method.

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