

A Hybrid Semi Analytical And Numerical Escholarship

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A Hybrid Semi Analytical And

This proposed hybrid method combines a semi-analytical method which is the homotopy perturbation method with the natural transform for solving initial value problems represented by linear and non-linear integro - differential equations of the first order. The basic steps of the proposed hybrid scheme are deriving the integro - differential equation twice so we got two additional initial conditions, then we applied the natural transform to the obtained equation that we

got after the ...

A Hybrid Semi-Analytical Method with Natural Transform for ...

known semi-analytical heat transfer method of Vinsome and Westerveld (1980) to the problem of heat transfer to and from a flowing well. The Vinsome-Westerveld method treats heat exchange between a reservoir and adjacent cap and base rocks by means of a hybrid numerical-analytical method, in which temperature distributions in the conductive

A Hybrid Semi-Analytical and Numerical Method for Modeling ...

Thus, for incorporation in design and energy-analysis procedures for borehole fields, hybrid numerical-analytical and numerical-semi-analytical methods, in which numerical simulations of heat transfer in the ground are coupled with approximate analytical or semi-analytical solutions of heat transfer in the boreholes (including the working fluid flowing through the U-tubes inserted in them), are an attractive cost-effective alternative (offering acceptable accuracy at affordable costs) to ...

A hybrid numerical-semi-analytical method for computer ...

The Vinsome-Westerveld method treats heat exchange between a reservoir and adjacent cap and base rocks by means of a hybrid numerical-analytical method, in which temperature distributions in the conductive domain are approximated by simple trial functions, whose parameters are obtained concurrently with the numerical solution for the flow domain.

A Hybrid Semi-Analytical and Numerical Method for Modeling ...

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Fluid flow in geothermal production and injection wells can be strongly affected by heat transfer effects with the formations surrounding the wellbore. Various techniques and approximations to model wellbore heat transmission have been presented in the literature. The objective of the present work is to

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develop a ...

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This paper presents a hybrid mathematical model which combines a semi-analytical model with the Finite Element Analysis (FEA) method to determine sound radiation from a vibrating structure. The latter is employed to calculate the vibration velocity of a structure with a rather complex geometry.

Development of Hybrid Semi-Analytical and Finite Element ...

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A HYBRID SEMI-ANALYTICAL AND NUMERICAL METHOD FOR MODELING WELLBORE HEAT TRANSMISSION . By Karsten Pruess and Yingqi Zhang. Abstract. Fluid flow in geothermal production and injection wells can be strongly affected by heat transfer effects with the formations surrounding the wellbore. Various techniques and approximations to model wellbore heat ...

A HYBRID SEMI-ANALYTICAL AND NUMERICAL METHOD FOR MODELING ...

The hybrid of spectral analysis method, Modified Homotopy perturbation method (MHPM) is utilized. The very rapid convergence of the results using the MHPM towards the semi-numeric solution indicates that the amount of computational work is much less than the computational work required for the previous research.

Hybrid semi analytical method for geothermal U shaped heat ...

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Many analytical, semi-analytical and numerical schemes have been derived from investigating the physical dynamics of these models such as the Adomian decomposition method, the simplest equation method, modified tanh-function method, B-spline method, iterative method [1-14].

Analytical, semi-analytical, and numerical solutions for ...

Hybrid semi analytical method for geothermal U shaped heat exchanger. ... techniques, such as analytical, semi-analytical and numerical, have been utilized for this purpose. Nevertheless, in spite

...

(PDF) Hybrid semi analytical method for geothermal U ...

A hybrid regime is a mixed type of political regime that is often created as a result of an incomplete transition from an authoritarian regime to a democratic one. Hybrid regimes combine autocratic features with democratic ones and can simultaneously hold political repressions and regular elections. The term hybrid regime arises from a polymorphic view of political regimes that opposes the ...

Hybrid regime - Wikipedia

A semi-analytical hybrid approach is presented here to simulate the dynamic behaviour of a multi-layered elastic waveguide with a system of delaminations and a piezoelectric transducer mounted on the surface of the waveguide.

Semi-analytical hybrid approach for modelling wave motion ...

Plug-In Hybrid. A plug-in hybrid enhances the conventional hybrid concept with a much larger battery pack that, like an electric car's, must be fully recharged using an external electricity source

...

What is a Hybrid Car and How Do They Work?

Hybrid vehicle drive trains transmit power to the driving wheels for hybrid vehicles. A hybrid vehicle has multiple forms of motive power. Hybrids come in many configurations. For example, a hybrid may receive its energy by burning petroleum, but switch between an electric motor and a combustion engine.

Hybrid vehicle drivetrain - Wikipedia

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What does semianalytical mean?

This paper proposes a new hybrid analytical and numerical FE-based method for calculating ac eddy current losses in wire windings and demonstrates its applicability for axial flux electric machines. The method takes into account 3D field effects in order to achieve accurate results and yet greatly reduce computational efforts.

"A Hybrid Analytical and FE-Based Method for Calculating ...

Hybrid methods couple semi-analytical solutions and numerical computations in limited spatial domains to handle complex cases with high computation performances. In CIVA we have integrated a hybrid model that combines the semi-analytical methods developed at CEA to FDTD codes developed at Airbus Group Innovations for composite applications.

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