

Analytical And Hybrid Methods In The Theory Of Slot Hole Coupling Of Electrodynamical Volumes

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Analytical And Hybrid Methods In

Download Analytical And Hybrid Methods In The Theory Of Slot Hole Coupling Of Electrodynamical Volumes books, This book provides the reader with the possibility of rapid study and application of methods of computer analysis of electrodynamic problems. The authors address the development of analytical methods to solve the problems of diffraction of waveguide electromagnetic waves on slot coupling holes.

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Analytical and Hybrid Methods in the Theory of Slot-hole Coupling of Electrodynamical Volumes arose from the original research results, never before published, first obtained by the authors at Karazin Kharkov National University, Ukraine.

Analytical and Hybrid Methods in the Theory of Slot-Hole ...

Introduction. Analytical and Hybrid Methods in the Theory of Slot-hole Coupling of Electrodynamical Volumes arose from the original research results, never before published, first obtained by the authors at Karazin Kharkov National University, Ukraine. Impetuous development of technical opportunities of PC for the last twenty years, and a powerful set of numerical methods available in the arsenals of investigators have forced the working-outs connected with the search of analytical solutions ...

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Analytical and Hybrid Methods in the Theory of Slot-Hole ...

Analytical methods represent the hybrid energy systems by means of computational models which describe hybrid system size as a function of its feasibility. Therefore, system's performance can be measured for a set of possible system architecture and/or a size of components.

Analytical Method - an overview | ScienceDirect Topics

The proposed hybrid method is achieved through two main steps: First, analytical formulas to determine the total efficiency of a NaI crystal are derived. In the second step, an MC code is used to calculate the P/T ratios for different γ -energies at different source positions with respect to the detector and combined with the analytical formulas.

A hybrid analytical-numerical method for full energy peak ...

Analytical chemistry methods include classical wet chemical strategies and present-day instrumental techniques. Classical methods use separation, for example, precipitation x' extraction and distillation, identification based on differences in color, odor, radioactivity or reactivity, melting point, the boiling point.

Analytical Chemistry, Analytical Chemistry Methods

In the 1970s many of these techniques began to be used together as hybrid techniques to achieve a complete characterization of samples. Starting in approximately the 1970s into the present day analytical chemistry has progressively become more inclusive of biological questions (bioanalytical chemistry), whereas it had previously been largely focused on inorganic or small organic molecules .

Analytical chemistry - Wikipedia

This condition is fulfilled by the deterministic and random fracture networks that are described below. Our hybrid analytical and numerical method is tested on these networks for various hydraulic conditions and fluid flow directions, and the corresponding results are shown below and discussed in Section 4.

Hybrid Analytical and Numerical Approach for Modeling ...

This review is focused on the usage of hybrid antibody-aptamer receptor layers for the determination of clinically and environmentally important target molecules. In this work, antibodies and aptamer molecules are characterized and the methods of their immobilization as well as analytical signal generation are shown.

The application of antibody-aptamer hybrid biosensors in ...

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A hybrid analytical-numerical method is proposed to determine the Full Energy Peak Efficiency (FEPE) of a NaI bare crystal for a point γ -source in the energy range 48–2040 keV.

A Hybrid Analytical and Data-driven Modeling Approach for ...

For instance in , the analytical model is treated as being in service of the learning and for simplifying learning, whereas the current paper argues that essentially both the analytical and the data-driven parts play their well-defined roles in a more coherent overall hybrid modeling approach. To make this explicit, this paper describes the methodology in some generality and points out common principles, while illustrating these through examples from robotics.

Hybrid Analytical and Data-Driven Modeling for Feed ...

The hybrid process is also good for saving money, at least if analyzing smaller sample pools. Using a traditional pattern of qualitative and the quantitative research typically divides the collection and assessment of opinions. If the qualitative element is lacking, then the quantitative effort will always be misdirected.

Qualitative/Quantitative Hybrid Research: A Middle Ground ...

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. It is also shown that hybrid methods based on 2D FE models, which ...

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

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The method is applied to three-phase, oil-immersed, ONAN distribution transformers and its results are experimentally validated by local field measurements. II. PROPOSED METHODOLOGY A. Outline of the Hybrid Numerical-Analytical Technique The proposed technique combines 2-D and 3-D electromag-netic and thermal FEM analysis, in conjunction with ...

Hybrid Numerical-Analytical Technique for Power ...

The advantage of the proposed hybrid method is shown by applying it and the current mount stiffness method to the vibration at the operator position of a conventional combine harvester. 2. Method 2.1. Theory of Transfer Path Analysis. The transfer path analysis is a method to identify contributory paths for the response at the evaluation points ...

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