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~~Variational method in the stability analysis of ...~~

variation, it is observed that variational technique can be more appropriately utilised for the rigorous stability analysis of slopes. The solutions obtained by indirect and direct methods in calculus of

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variations are in close agreement. The slip-surface obtained by variational technique resembles more

~~VARIATIONAL METHODS IN THE STABILITY ANALYSIS OF SLOPES~~

Variational methods are used to formulate the problem of the growth and stability of periodically spaced straight cracks in an elastic brittle solid, where the crack growth is governed by a strain-controlled mechanism.

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We then prove in Section 3 the stability theorem: $(f_1)^2 - (f_0)^2 \leq C(f_1 - f_0)^{1/2} + f_0^2$ (3) where $C(\cdot)$ is of order $1/2$ and the exponent $1/2$ is optimal. We give an application of this

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theorem. Finally, we explain how this result can be extended when the space BV is replaced by other functional Banach spaces. 1.

Background

~~Stability in a class of variational methods~~

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~~Stability in a class of variational methods~~—CORE

potential energy etc. These methods are called variational methods. They seek to minimize the total potential energy functional in order to get the stability matrix. In all these methods, the accuracy of the solution is dependent on the accuracy of the approximate deflection

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function (shape

~~GALERKIN ' S INDIRECT VARIATIONAL METHOD IN ELASTIC ...~~

Furthermore, the stability results on two special cases are also obtained under weaker conditions. KEYWORDS: general variational inequality, continuous method model, exponential stability MSC2010: 65K05 90C30 49M37 INTRODUCTION In this paper, we are concerned with the following general variational inequality problem with convex

~~Exponential stability of the continuous method model for ...~~

A general nonself-adjoint eigenvalue problem is examined and it is shown that the commonly employed approximate methods, such as

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the Galerkin procedure, the method of weighted residuals and the least square technique lack variational descriptions.

~~Adjoint variational methods in nonconservative stability ...~~

In quantum mechanics, the variational method is one way of finding approximations to the lowest energy eigenstate or ground state, and some excited states. This allows calculating approximate wavefunctions such as molecular orbitals. The basis for this method is the variational principle. The method consists of choosing a "trial wavefunction" depending on one or more parameters, and finding the values of these parameters for which the expectation value of the energy is the lowest possible. The w

~~Variational method (quantum mechanics) - Wikipedia~~

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Executive summary This guideline provides guidance on the stability data which have to be generated in order to support a variation to a marketing authorisation. The guideline provides general guidance on stability testing for type IA and type IB variations and addresses the data requirements for common type II variations. 1.

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~~Guideline on stability testing for applications for ...~~

Variational Methods for Analysis of Stability of Interacting Cracks
Normal Dissipativity and Energy Criteria in Fracture Use of
Variational Methods for the Analysis of Contact Problems in Solid
Mechanics Remarks on the Convergence of the Mixed Finite
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~~Variational Methods in the Mechanics of Solids—1st Edition~~

Request PDF | Stability in a class of variational methods | The
purpose of this work is to investigate the stability property of some
models which are currently used in image processing. Following ...

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Unlike the conventional limit equilibrium method, variational

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calculus method neither requires kinematical assumption (i.e. the shape of the critical slip surface) nor any static assumption (i.e. distribution of normal stress along the slip surface). The factor of safety (F) is defined as a functional of normal stress and slip surface. The functional is minimized using Euler-Lagrangian equation.

~~Pseudo-static Slope Stability Analysis for Cohesive ...~~

The variational method can be adapted to give bounds on the energies of excited states, under certain conditions. Suppose we choose a trial function $\psi_1(x)$ with variational parameters a_n which is made orthogonal to the ground state ψ_0 , by imposing the condition $\int \psi_0 \psi_1 dx = 0$. If we know $\int \psi_0^2 dx = 1$, then similar to the above $E[\psi_1] = \int \psi_1^* H \psi_1 dx / \int \psi_1^2 dx$

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~~8 The Variational Principle~~

The structure of finite element methods A finite element method is characterized by a variational formulation, a discretization strategy, one or more solution algorithms, and post-processing procedures. Examples of the variational formulation are the Galerkin method, the discontinuous Galerkin method, mixed methods, etc.

~~Finite element method - Wikipedia~~

Abstract Applying the concept of minimum potential energy and the variational method proposed in this paper, one can derive the governing equation and transversality conditions for the critical slip surface of a cohesive land slope described by simplified Janbu's model where both horizontal and vertical inter-slice forces are neglected.

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~~Variational Stability Analysis of Cohesive Slope by ...~~

Abstract We present variational approach to the semilinear equation of the vibrating string $x_{tt}(t,y) - x(t,y) + l(t,y,x(t,y)) = 0$ in bounded domain and certain type of nonlinearity on the boundary. To this effect we derive new dual variational method. Next the question of stability of solutions with respect to initial conditions is discussed.

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