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Solution to the mathematical model equations. The difference between the solution to the numerical equations and the exact solution to the mathematical model equations is the error: $e = u - u_h$.

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About the Author Dr. Liu received his PhD from Tohoku University, Japan in 1991.

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The Finite Element Method

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Galerkin's method is an efficient method for finding the approximate solution to a given problem if (and only if) we can: Construct a function that satisfies the essential boundary conditions. Specify a set of

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Originated by G R Liu by combining some meshfree techniques with the well-established standard finite element method (FEM). It has a family of models carefully designed with innovative types of smoothing domains.

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Solution Manual These models are found having a number of important and theoretically profound properties.

The smoothed finite element method (S-FEM): A framework

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The finite element method gives an approximate solution to the mathematical model equations. The difference between the solution to the numerical equations and the exact solution to the mathematical

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model equations is the error: $e = u - u_h$.

Detailed Explanation of the Finite Element Method (FEM)
We wish to find then a time-dependent solution vector $u(t)$ to the ODE system.

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$$M \dot{x}(t) + A x(t) = b(t); 0 < t$$

$< T$ (5.1a) $x(0) = x_0$ (5.1b) where

\dot{x} means differentiation with respect to time t , T is the final time, M and A are given

constant $n \times n$ matrices, $b(t)$ is a given time-dependent $n \times 1$

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vector, and \mathbf{u}_0 is given $n \times 1$
vector with initial data.

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wave and microwave

tropospheric propagation,
properly manipulated, and
resulting in a one-
dimensional form, is solved
using the Finite Element
Method (FEM). The necessary
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profile characteristics are assigned to each mesh element, while the solution advances in small and constant range segments, each excited by the ...

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The Finite Element Method
(FEM) has become an
indispensable technology for
the modelling and simulation
of engineering systems.

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$[K]^{-1} \{F\} = \{d\}$ Using the adjoint method to find $[K]^{-1}$

$$C_{11} = k_2 + k_3, \quad C_{21} = (-1)^3 (-k_2)$$
$$C_{12} = (-1)^1 + 2(-k_2) = k_2, \quad C_{22} = k_1 + k_2$$

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The finite element method is the most widely used method for solving problems of engineering and mathematical models. Typical problem areas of interest include the traditional fields of

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structural analysis, heat transfer, fluid flow, mass transport, and electromagnetic potential. The FEM is a particular numerical method for solving partial differential equations in two or three

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Review of the Finite Element
Method (FEM) Classification
of Engineering Systems
Continuous Discrete. h. 2 .
h. 1 . Permeable Soil Flow .
L of water. Impermeable
Rock. dx. dy. $q|_y$. $q|_{x+dx}$
. $q|_{y+dy}$. $q|_x$. $k @ 2 ? @$

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2. $x + @ 2 ? @ 2. y = 0.$

Laplace Equation. $F = KX.$

Direct Stiffness Method. FEM:

Numerical Technique for
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and tetrahedral elements

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Comput Methods Appl Mech
Eng, 197 (2008), pp.
3883-3897

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6.3 Finite element mesh

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depicting global node and element numbering, as well as global degree of freedom assignments (both degrees of freedom are fixed at node 1 and the second degree of freedom is fixed at node 7) 145

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Generating a quality finite
element mesh is difficult
and often very time-
consuming. Mesh-free methods
operations can also be
complicated and quite costly

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in terms of computational
effort and resources.

Developed by the authors and
their colleagues, the
smoothed finite element
method (S-FEM) only requires
a triangular/tetrahedral
mesh to achieve more

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accurate results, a
generally higher ...

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of gravity anomaly.

Numerical Simulation of
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Liu's interests are in
computational mechanics,

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