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years, the
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has been applied And

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The differential

quadrature method

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has been widely
used in scientific
and engineering
computation.

However, for the
basic
characteristics of
time domain
differential
quadrature method,
such as numerical
stability and
calculation accuracy
or order, it is still

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lack of systematic
analysis
conclusions.

In Engineering

Characteristics of
the Differential
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Local radial basis
function-based
differential
quadrature method
is presented in

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detail in this paper.

The method is a natural mesh-free approach. Like the conventional differential quadrature (DQ) method, it discretizes any derivative at a knot by a weighted linear sum of functional values at its neighbouring knots,

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In this paper, the
application of the
least squares
differential
quadrature method

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(LSDQM) to the

Bagley – Torvik

fractional

differential equation

is presented. Due to

the fact that the

method is relative

straightforward, the

approximations may

be obtained in a

quick and simple

manner.

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The differential quadrature method is a numerical solution technique for initial and/or boundary problems. It was developed by the late Richard Bellman and his associates in the

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early 70s and, since then, the technique has been successfully employed in a variety of problems in engineering and physical sciences.

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Quadrature Method
in Computational
Mechanics ...

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Method and Its

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Quadrature Based

Element Methods is

a comprehensive

guide to these

methods and their

recent applications.

Due to the

capabilities for

rapid convergence,

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high accuracy, and computational efficiency, researchers are increasingly using the differential quadrature method and its based element methods to study structural mechanics.

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A differential quadrature hierarchical finite element method (DQHFEM) using Fekete points was formulated for triangles and tetrahedrons and applied to structural

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A differential
quadrature
hierarchical finite
element ...
So far, the
differential
quadrature method
has been widely
applied to boundary-
value problems in
many areas of

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engineering and
science, such as
transport process,
structural
mechanics,
calculation...

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A differential
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