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In the past few years, the differential quadrature method has been applied extensively in engineering. This book, aimed primarily at practising engineers, scientists and graduate students, gives a systematic description of the mathematical fundamentals of differential quadrature and its detailed implementation in solving Helmholtz problems and problems of flow, structure and vibration.

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Differential Quadrature and Its Application in Engineering

Yufeng Xing, Bo Liu, High accuracy differential quadrature finite element method and its application to free vibrations of thin plate with curvilinear domain, International Journal for Numerical Methods in Engineering, 10.1002/nme.2685, 80, 13, (1718-1742), (2009).

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The differential quadrature method 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 lack of systematic analysis conclusions.

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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 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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So far, the differential quadrature method has been widely applied to boundary-value problems in many areas of engineering and science, such as transport process, structural mechanics, calculation...

(PDF) Differential quadrature method and its applications ...

A differential quadrature hierarchical finite element method and its applications to vibration and bending of Mindlin plates with curvilinear domains Cuiyun Liu Key Laboratory of Aerospace Advanced Materials and Performance of Ministry of Education, School of Materials Science and Engineering, Beihang University, No.37 Xueyuan Road, Haidian District, Beijing, 100191 China

A differential quadrature hierarchical finite element ...

Differential quadrature and its application in engineering. C Shu. Springer Science & Business Media, 2012. 1717: 2012: Application of generalized differential quadrature to solve two-dimensional incompressible Navier-Stokes equations. C Shu, BE Richards.

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Civalek, Ö., Application of differential quadrature (DQ) and harmonic differential quadrature (HDQ) for buckling analysis of thin isotropic plates and elastic columns. *Engrg. Structure*. v26. 171-186. Google Scholar [14]. Civan, F., Solving multivariable models by the quadrature and cubature methods. *Numer.*

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