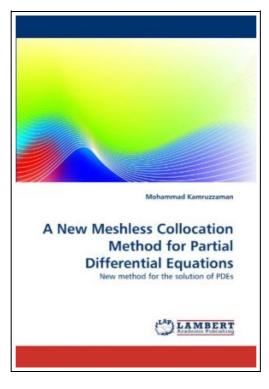
A New Meshless Collocation Method for Partial Differential Equations



Filesize: 2.26 MB

Reviews

If you need to adding benefit, a must buy book. it absolutely was writtern extremely perfectly and beneficial. You are going to like the way the blogger compose this publication. (Orlando Abernathy)

A NEW MESHLESS COLLOCATION METHOD FOR PARTIAL DIFFERENTIAL EQUATIONS



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | New method for the solution of PDEs | A collocation meshless method is developed for the numerical solution of Partial Differential Equations (PDEs) on the scattered point distribution. The meshless shape functions are constructed on a group of selected nodes (stencil) arbitrarily distributed in a local support domain by means of a polynomial interpolation. This shape function formulation possesses the Kronecker delta function property, and hence many numerical treatments are as simple as those of the Finite Element Method (FEM). Nearest neighbor algorithm is used for the support domain nodes collection and a search algorithm based on the Gauss-Jordan pivot method is applied to select a suitable stencil for the construction of the shape functions and their derivatives. This search technique is subject to a monitoring procedure which selects appropriate stencil in order to keep the condition number of the resulting linear systems small. Various meshless collocation schemes for the solution of elliptic, parabolic and hyperbolic PDEs are investigated for the proposed method. Different types of PDEs are studied as test cases and all of the computational results are examined. | Format: Paperback | Language/Sprache: english | 160 gr | 220x150x6 mm | 108 pp.

Read A New Meshless Collocation Method for Partial Differential Equations Online
Download PDF A New Meshless Collocation Method for Partial Differential Equations

Other Books

Ρ	DF

A Friend in Need Is a Friend Indeed: Picture Books for Early Readers and Beginner Readers Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.LIKE Publishing presents its Reader series. Based on famous proverbs, these readers teach... Download eBook »

PD	F

Read Write Inc. Phonics: Yellow Set 5 Storybook 7 Do We Have to Keep it?

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 211 x 101 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read... Download eBook »

PDF	

50 Green Smoothies for Weight Loss, Detox and the 10 Day Green Smoothie Cleanse: A Guide of Smoothie Recipes for Health and Energy

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. A Smoothie recipe book for everybody!! Smoothies have become very... Download eBook »

		٦
P	D	F

How to Keep Your Kids Drug Free

Christian Scholar's Press. Book Condition: New. New. Book is new and unread but may have minor shelf wear. Download eBook »

PD	F.

Alfred s Kid s Guitar Course 1: The Easiest Guitar Method Ever!, Book, DVD Online Audio, Video Software Alfred Music, United States, 2016. Paperback. Book Condition: New. Language: English . Brand New Book. Alfred s Kid s Guitar Course is a fun method that teaches you to play songs on the guitar right... Download eBook »