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May 11th, 2017 - Abstract The numerical solution of large scale PDEs such as those occurring in data driven applications unavoidably require powerful parallel computers and tailored parallel algorithms to make the best possible use of them In fact considerations about the parallelization and scalability of realistic problems are often critical enough to warrant acknowledgement in the modelling phase'

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'Numerical methods for linear 2nd order PDEs

September 2nd, 2018 - Modelling with partial differential equations is a huge subject and we have only covered the fundamentals in particular linear PDE models from mechanics and advection diffusion However I hope the models in this module convince you of the real world usefulness of the mathematical abilities you have acquired during your degree and also give'

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'Numerical Techniques for PDE Nc State University

September 20th, 2018 - Numerical Techniques for PDE A good many times I have been present at gatherings of people who by the standards of traditional culture are thought highly educated and who have with'

'On the Solution Procedure of Partial Differential Equation

June 30th, 2018 - In this paper we used the method of lines MOL as a solution procedure for solving partial differential equation PDE The range of applications of the MOL has increased dramatically in the last few years nevertheless there is no introductory to initiate a beginner to the method This Paper illustrates the application of the MOL using Crank Nicholson method CNM for numerical solution of'

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simulations the quality of the computed results is directly connected to the model's complexity and the number of data points used for the computations'

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