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PDEs Vrushali A. Bokil Bokilv@math.oregonstate.edu And Nathan L. Gibson Gibsonn@math.oregonstate.edu Department Of Mathematics Oregon State University Corvallis, OR DOE Multiscale Summer School June 30, 2007 Multiscale Summer School Œ P. 1 Mar 20th, 2024

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4 FINITE DIFFERENCE METHODS (II) Where DDDDDDDDDDDDD(m) Is The Differentiation Matrix. For General, Irregular Grids, This Matrix Can Be Constructed By Generating The FD Weights For Each Grid Point I (using Fdcoefs, For Example), And Then Introducing These Weights In Row I.Of Course Fdcoefs Only Computes The Non-zero Weights, So The Other Components Of The Row Have To Be Set To Zero. Mar 16th, 2024

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The Full 3D Solutions Are Characterized By Three Positive Integer Quantum Numbers, (n X;n Y;n Z), One Per Dimension. The Total Energy Is E= E 1 + E 2 + E 3 = ˘ 2~ 2m N X A2 X + N2 Y A2 Y + N2 Z A2 Z! And The Full Wavefunction Is: Jan 10th, 2024

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