

Statics and Mechanics of Materials

Second Edition

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web in the program a uniform grid spacing and constant time step are used and Δx their values are $\Delta x = 1/30$ with 31 grid points in the domain and $\Delta t = 1/500$ with 500 time steps reaching the final time of 1 second respectively the exact solution is evaluated with 10 terms in the summation

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web of 107 fluid mechanics 6 ed kundu cohen and dowling exercise 4.1 let a one-dimensional velocity field be $u = u(x)$ with $v = 0$ and $w = 0$ the density varies as $2 \cos \pi x$ find an expression for $u(x)$ if $u(0) = 1$ solution 4.1 here $u = u(x)$ and the density field is given so a solution for $u(x)$ might be found from the