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this new work is an introduction to the numerical solution of the initial value problem for a system of ordinary differential equations the first three chapters are general in nature and chapters 4 through 8 derive the basic numerical methods prove their convergence study their stability and consider how to implement them effectively the book focuses on the most important methods in practice and develops them fully uses examples throughout and emphasizes practical problem solving methods

integrates two fields generally held to be incompatible if not downright antithetical in 16 lectures from a february 1990 workshop at the argonne national laboratory illinois the topics of interest to industrial and applied mathematicians analysts and computer scientists include singular per

this book presents comprehensive coverage of the fundamental concepts and applications of partial differential equations pdes it is designed for the undergraduate ba bsc hons and postgraduate ma msc students of mathematics and conforms to the course curriculum prescribed by ugc the text is broadly organized into two parts the first part lessons 1 to 15 mostly covers the first order equations in two variables in these lessons the mathematical importance of pdes of first order in physics and applied sciences has also been highlighted the other part lessons 16 to 50 deals with the various properties of second order and first order pdes the book emphasizes the applications of pdes and covers various important topics such as the hamilton jacobi equation conservation laws similarity solution asymptotics and power series solution and many more the graded problems the techniques for solving them and a large number of exercises with hints and answers help students gain

the necessary skill and confidence in handling the subject key features 1 presents self contained topics in a cohesive style 2 includes about 300 worked out examples to enable students to understand the theory and inherent aspects of pdes 3 provides around 450 unsolved problems with hints and answers to help students assess their comprehension of the subject

following in the footsteps of the authors bestselling handbook of integral equations and handbook of exact solutions for ordinary differential equations this handbook presents brief formulations and exact solutions for more than 2 200 equations and problems in science and engineering parabolic hyperbolic and elliptic equations with

an ancillary package is available upon adoption

modelling with differential equations in chemical engineering covers the modelling of rate processes of engineering in terms of differential equations while it includes the purely mathematical aspects of the solution of differential equations the main emphasis is on the derivation and solution of major equations of engineering and applied science methods of solving differential equations by analytical and numerical means are presented in detail with many solved examples and problems for solution by the reader emphasis is placed on numerical and computer methods of solution a key chapter in the book is devoted to the principles of mathematical modelling these principles are applied to the equations in important engineering areas the major disciplines covered are thermodynamics diffusion and mass transfer heat transfer fluid dynamics chemical reactions and automatic control these topics are of particular value to chemical engineers but also are of interest to mechanical civil and environmental engineers as well as applied scientists the material is also suitable for undergraduate and beginning graduate students as well as for review by practising engineers

statistical and methodological errors are fairly universal in all the social sciences this unique volume investigates the following questions what are the most common errors and how can they be avoided common problems proper solutions identifies and corrects these errors and provides clear statements concerning methodological issues long groups the problems into two broad types omission where researchers fail to apply methods ideal to a topic and commission where a technique is inappropriately applied each article addresses a specific aspect of these problems this volume encourages

further communication between methodological specialists and quantitative researchers and highlights the important relationship be

this book offers a collection of approximately 2 500 nonlinear ordinary differential equations and includes the equation the answer or important results and references nonlinear phenomena have become a dominant theme in the sciences and this thoroughly up to date book is a useful research tool for applied mathematicians and engineers

three cases of viscous flow in a circular cylindrical tube containing an infinite line of spherical particles equally spaced along the axis of the tube are considered axial translation of the particles flow past a line of stationary particles flow of fluid and particles under an imposed pressure gradient the fluid is taken to be incompressible newtonian and the linearized equations of creeping flow are used the case is an idealization of blood flow in capillaries where the diameter of the red blood cells is of the same order as the diameter of the capillary itself the results may also be of interest in sedimentation fluidized beds and groundwater flow an exact solution in the form of an infinite series of singularities at the center of each sphere is developed and evaluated numerically for a range of sphere radius to tube radius of zero to 0 9 the drag on each sphere the pressure drop and typical streamline patterns are given the results show that the drag and pressure drop for a given size of sphere decrease as the spacing between spheres increases and for spacings more than one tube diameter there is little interaction between spheres author

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