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Line of Spherical Particles *Hans G. Kaper Alexei Cheviakov J. Scott Long Lawrence Justin De Chant Peter M. Bungay Gleb Mamantov Subhash Chandra Sinha David O. Cooney William Albert Hyman American Chemical Society. Committee on Professional Training Stanley M. Walas Licensing Executives Society (U.S.A./Canada) Mustafa M. Aral Haijiang Henry Wang*

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

nonlinear partial differential equations pde are at the core of mathematical modeling in the past decades and recent years multiple analytical methods to study various aspects of the mathematical structure of nonlinear pdes have been developed those aspects include c and s integrability lagrangian and hamiltonian formulations equivalence transformations local and nonlocal symmetries conservation laws and more modern computational approaches and symbolic software can be employed to systematically derive and use such properties and where possible construct exact and approximate solutions of nonlinear equations this book contains a consistent overview of multiple properties of nonlinear pdes their relations computation algorithms and a uniformly presented set of examples of application of these methods to specific pdes examples include both well known nonlinear pdes and less famous systems that arise in the context of shallow water waves and far beyond the book will beof interest to researchers and graduate students in applied mathematics physics and engineering and can be used as a basis for research study reference and applications

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

viscous flow in a circular cylindrical tube containing an infinite line of deformable liquid drops equally spaced along the tube axis is considered the fluid within the drops as well as the suspending fluid is taken to be newtonian and incompressible a surface tension is assumed to act at the interface two types of solutions are developed depending on the magnitude of the distortion of the drop shape from spherical a perturbation solution is employed for nearly spherical drops in this case the flow of the suspending fluid and liquid drops under an imposed pressure gradient is a linear combination of the solutions obtained for 1 the axial translation of the drops and 2 the flow of the suspending fluid past the drops for large deformations the problem is no longer linear in these two flows an approximate numerical technique is employed for this case which yields the drop shape as well as the other parameters of the flow the results show that both drag and pressure loss per drop increases with both increasing drop spacing and radius the internal motion of the drops reduces the drag and pressure gradients as compared with rigid spheres of equal volume further due to the deformation the overall resistance decreases with increasing flow rate this constitutes a mechanism of non newtonian behavior of the suspension as a whole author

faculties publications and doctoral theses in departments or divisions of chemistry chemical engineering biochemistry and pharmaceutical and or medicinal chemistry at universities in the united states and canada

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

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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