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G. W. Bluman  
J. D. Cole

# Similarity Methods for Differential Equations



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# Similarity Methods For Differential Equations

**Bahman Zohuri**



## **Similarity Methods For Differential Equations:**

**Similarity Methods for Differential Equations** G.W. Bluman, J.D. Cole, 2012-12-06 The aim of this book is to provide a systematic and practical account of methods of integration of ordinary and partial differential equations based on invariance under continuous Lie groups of transformations The goal of these methods is the expression of a solution in terms of quadrature in the case of ordinary differential equations of first order and a reduction in order for higher order equations For partial differential equations at least a reduction in the number of independent variables is sought and in favorable cases a reduction to ordinary differential equations with special solutions or quadrature In the last century approximately one hundred years ago Sophus Lie tried to construct a general integration theory in the above sense for ordinary differential equations Following Abel's approach for algebraic equations he studied the invariance of ordinary differential equations under transformations In particular Lie introduced the study of continuous groups of transformations of ordinary differential equations based on the infinitesimal properties of the group In a sense the theory was completely successful It was shown how for a first order differential equation the knowledge of a group leads immediately to quadrature and for a higher order equation or system to a reduction in order In another sense this theory is somewhat disappointing in that for a first order differential equation essentially no systematic way can be given for finding the groups or showing that they do not exist for a first order differential equation

*Similarity Methods for Differential Equations* George W. Bluman, 1975      *Similarity*

*Solutions of Nonlinear Partial Differential Equations* Lawrence Dresner, 1983      **G. W. Bluman [and] J. D. Cole ;**

**Similarity Methods for Differential Equations** G. W. Bluman, J. D. Cole, 1974      **Handbook of Differential Equations** Daniel Zwillinger, 1998 This book compiles the most widely applicable methods for solving and approximating differential equations as well as numerous examples showing the methods use Topics include ordinary differential equations symplectic integration of differential equations and the use of wavelets when numerically solving differential equations For nearly every technique the book provides The types of equations to which the method is applicable The idea behind the method The procedure for carrying out the method At least one simple example of the method Any cautions that should be exercised Notes for more advanced users References to the literature for more discussion or more examples including pointers to electronic resources such as URLs

**Dimensional Analysis Beyond the Pi Theorem** Bahman Zohuri, 2016-11-02 Dimensional Analysis and Physical Similarity are well understood subjects and the general concepts of dynamical similarity are explained in this book Our exposition is essentially different from those available in the literature although it follows the general ideas known as Pi Theorem There are many excellent books that one can refer to however dimensional analysis goes beyond Pi theorem which is also known as Buckingham's Pi Theorem Many techniques via self similar solutions can bound solutions to problems that seem intractable A time developing phenomenon is called self similar if the spatial distributions of its properties at different points in time can be obtained from one another by a similarity transformation and identifying one

of the independent variables as time However this is where Dimensional Analysis goes beyond Pi Theorem into self similarity which has represented progress for researchers In recent years there has been a surge of interest in self similar solutions of the First and Second kind Such solutions are not newly discovered they have been identified and named by Zel dovich a famous Russian Mathematician in 1956 They have been used in the context of a variety of problems such as shock waves in gas dynamics and filtration through elasto plastic materials Self Similarity has simplified computations and the representation of the properties of phenomena under investigation It handles experimental data reduces what would be a random cloud of empirical points to lie on a single curve or surface and constructs procedures that are self similar Variables can be specifically chosen for the calculations

#### **Similarity Method for Differential Equations** Boon-chang Tan,1989

#### Simple Methods for Classification and Construction of Similarity Solutions of Partial Differential Equations Douglas

Eugene Abbott,Stephen Jay Kline,1960

*Similarity Solutions for Partial Differential Equations Generated by Finite and*

*Infinitesimal Groups* Henry Stott Woodard,William F. Ames,1971 The problem of developing systematic methods for obtaining similarity variables is considered for partial differential equations Similarity variables are a set of transformations which reduce a partial differential equation to an ordinary differential equation This paper considers two methods of generating similarity variables The first method uses a group of finite transformations and the second uses a group of infinitesimal transformations The mathematical theory for both techniques is described and illustrated The two methods of obtaining similarity variables are applied to the Burgers equation  $u \frac{\partial u}{\partial y} = u \frac{\partial u}{\partial x} + u \frac{\partial^2 u}{\partial x^2}$  and to the laminar boundary layer equations with a pressure gradient In all cases considered new types of similarity variables are found In addition the auxiliary conditions are discussed in the light of the new similarity variables obtained for the boundary layer equations

Author **Invariante Lösungen der eindimensionalen nichtstationären realen MHD-Gleichungen** Jürgen Groß,1983

#### **Group and Potential Similarity Transformation Methods** Magda Kassem,Medhat Helal,Enas Abu El Seoud,2012-08

The object of this work is to obtain the similarity solution of a given problem by applying the Group and Potential similarity transformation methods where the governing partial differential equations are written in a conserved form to obtain new simpler system of partial differential equations We then applied the group method which reduces the new system with the auxiliary condition to a system of ordinary differential equation with the appropriate corresponding conditions that can be solved analytically or numerically Because of the absence of this combination between the potential and the group methods so far this search is considered as an innovation in the field of mathematics

#### **Advanced Heat and Mass Transfer** Amir

Faghri,Yuwen Zhang,John R. Howell,2010 All relevant advanced heat and mass transfer topics in heat conduction convection radiation and multi phase transport phenomena are covered in a single textbook and are explained from a fundamental point of view

#### **Simple Methods for Classification and Construction of Similarity Solutions of Partial Differential Equations** Stanford University. Thermosciences Division. Thermosciences Division,D. E. Abbott,Stephen J. Kline,1960

**Deutsches Bücherverzeichnis** ,1980      **Abhandlungen der Braunschweigischen Wissenschaftlichen Gesellschaft** Braunschweigische Wissenschaftliche Gesellschaft,1988      **Dimensional Analysis and Self-Similarity Methods for Engineers and Scientists** Bahman Zohuri,2015 Provides innovative techniques for solving complex nonlinear partial differential equations previously only available to scientists involved in classified government funded projects Goes beyond the traditional Pi Buckingham Theorem method to apply dimensional analysis to gas dynamics and thermal hydraulics problems where both laminar and turbulent fluids come into play Includes specific examples demonstrating how dimensional analysis can shed light on applications from shock wave impact prediction to plasma confinement Presents a unique approach to similarity methods by discussing Chaos Fractals and Arcadia in addition to the more common Self Similarity and Fractals Techniques This ground breaking reference provides an overview of key concepts in dimensional analysis and the scientific approach of similarity methods including a uniquely robust discussion on self similarity solutions of the First and Second kinds The coverage pushes well beyond traditional applications in fluid mechanics and gas dynamics to demonstrate how powerful self similarity can be in solving complex problems across many diverse fields using nonlinear Partial Differential Equations PDEs by reducing them to Ordinary Differential Equations ODEs with a simple traditional analytical solution approach Of particular interest is the book s coverage of dimensional analysis and self similarity methods in nuclear and energy engineering from Heat Transfer and Thermal Hydraulic points of view Numerous practical examples of dimensional analysis problems are presented throughout each chapter with additional problems presented in each appendix allowing readers to link the book s theoretical explanations and step by step mathematical solutions to practical implementations

Applied Mechanics Reviews ,1978      *Fundamentals of Natural Convection* ,1991      *Lecture Notes in Pure and Applied Mathematics* ,1989      **Inertial Confinement Fusion Driven Thermonuclear Energy** Bahman Zohuri,2017-01-26 This book takes a holistic approach to plasma physics and controlled fusion via Inertial Confinement Fusion ICF techniques establishing a new standard for clean nuclear power generation Inertial Confinement Fusion techniques to enable laser driven fusion have long been confined to the black box of government classification due to related research on thermonuclear weapons applications This book is therefore the first of its kind to explain the physics mathematics and methods behind the implosion of the Nd Glass tiny balloon pellet using reliable and thoroughly referenced data sources The associated computer code and numerical analysis are included in the book No prior knowledge of Laser Driven Fusion and no more than basic background in plasma physics is required

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