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The crucial step in integrating differential equations is a "simplification" of the frame by a suitable change of the variables x,y . The Lie group analysis suggests methods for simplification of the frame by using symmetry groups (or admissible groups) of differential equations.

Introduction to Group Analysis of Differential Equations

Group Analysis of Differential Equations provides a systematic exposition of the theory of Lie groups and Lie algebras and its application to creating algorithms for solving the problems of the group analysis of differential equations.

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The first chapter is a brief, but a sufficiently comprehensive introduction to the methods of Lie group analysis of ordinary and partial differential equations.

Introduction to Group Analysis of Differential Equations

Group Analysis of Differential Equations and Integrable Systems The Series of Workshops is organized by the Department of Mathematics and Statistics of the University of Cyprus and the Department of Mathematical Physics of the Institute of Mathematics of the National Academy of Sciences of Ukraine .

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tial equations, integration of ordinary differential equations using their symmetries, group classification and invariant solutions of partial differential equations. It contains also an introduction to the theory of Lie-Bäcklund transformations groups and approximate groups. The reader interested in studying more about Lie group methods of integration of differential equations is referred to [8] and to the recent textbook [10].

Chapter 1 Introduction to Group Analysis of Differential

Group Analysis of Differential Equations provides a systematic exposition of the theory of Lie groups and Lie algebras and its application to creating algorithms for solving the problems of the group analysis of differential equations. This text is organized into eight chapters.

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