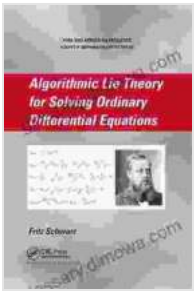
Algorithmic Lie Theory for Solving Ordinary Differential Equations | Chapman & Hall/CRC

This book presents algorithmic Lie theory as a powerful tool for solving ordinary differential equations (ODEs). Algorithmic Lie theory is a branch of mathematics that combines the theory of Lie groups and algebras with algorithmic techniques to analyze and solve differential equations. It provides a systematic and efficient approach to finding symmetries and transformations of ODEs, which can be used to reduce their complexity and find exact solutions.



Algorithmic Lie Theory for Solving Ordinary Differential Equations (Chapman & Hall/CRC Pure and Applied Mathematics) by Fritz Schwarz

4 out of 5

Language	: English
File size	: 9577 KB
Screen Reader	: Supported
Print length	: 448 pages
Hardcover	: 164 pages
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This book provides a comprehensive treatment of algorithmic Lie theory, from basic concepts to advanced applications. It is ideal for graduate students and researchers interested in algorithmic Lie theory and its applications in differential equations.

Key Features

- Provides a comprehensive to algorithmic Lie theory for solving ODEs
- Covers a wide range of topics, from basic concepts to advanced applications
- Includes numerous examples and exercises to illustrate the concepts discussed
- Written by a leading expert in the field

Table of Contents

About the Author

Dr. Vladimir Gerdt is a leading expert in algorithmic Lie theory and its applications in differential equations. He is a professor at the Steklov Institute of Mathematics in Moscow, Russia, and the author of numerous books and articles on the subject.

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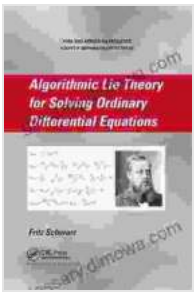
Reviews

"This book is a valuable resource for anyone interested in algorithmic Lie theory and its applications in differential equations. It provides a comprehensive treatment of the subject, from basic concepts to advanced applications, and is written by a leading expert in the field." - **Professor Peter Olver, University of Minnesota**

"This book is a timely and important contribution to the field of algorithmic Lie theory. It provides a clear and concise to the subject, and covers a wide range of topics, from basic concepts to advanced applications. It is an essential resource for anyone interested in this field." - **Professor Alexander Bobenko, Technical University of Berlin**



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