Título: Loewy Decomposition Of Linear Differential Equations

Autor: Schwarz, Fritz

Precio: $1793.67

Editorial:

Año: 2012

Tema:

Edición: 1ª

Sinopsis

ISBN: 9783709112854

Most advanced and most complete text on closed form solutions of linear partial differential equations
Provides more than 50 worked out examples and exercises including solutions
The results described in the book may be applied for determining Lie symmetries of nonlinear differential equations
The central subject of the book is the generalization of Loewy's decomposition - originally introduced by him for linear ordinary differential equations - to linear partial differential equations. Equations for a single function in two independent variables of order two or three are comprehensively discussed. A complete list of possible solution types is given. Various ad hoc results available in the literature are obtained algorithmically. The border of decidability for generating a Loewy decomposition are explicitly stated. The methods applied may be generalized in an obvious way to equations of higher order, in more variables or systems of such equations.
Content Level » Research

Keywords » Computer Algebra Software - Differential Algebra - Partial Differential Equations

Related subjects » Computational Intelligence and Complexity - Dynamical Systems & Differential Equations - Theoretical Computer Science