

Multivariate Difference-Differential Dimension Polynomials

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Abstract

In this paper we generalize the Ritt-Kolchin method of characteristic sets and the classical Gröbner basis technique to prove the existence and obtain methods of computation of multivariate difference-differential dimension polynomials associated with a finitely generated difference-differential field extension. We also give an interpretation of such polynomials in the spirit of the A. Einstein's concept of strength of a system of PDEs and determine their invariants, that is, characteristics of a finitely generated difference-differential field extension carried by every its dimension polynomial.

1 Introduction

The role of Hilbert polynomials in commutative and homological algebra as well as in algebraic geometry and combinatorics is well known. A similar role in differential algebra is played by differential dimension polynomials, which describe in exact terms the freedom degree of a dynamic system as well as the number of arbitrary constants in the general solution of a system of partial algebraic differential equations.

The notion of differential dimension polynomial was introduced by E. Kolchin in 1964 [4] who proved the following fundamental result.

Theorem 1.1 *Let K be a differential field ($\text{Char } K = 0$), that is, a field considered together with the action of a set $\Delta = \{\delta_1, \dots, \delta_m\}$ of mutually commuting derivations of K into itself. Let Θ denote the free commutative semigroup of all power products of the form $\theta = \delta_1^{k_1} \dots \delta_m^{k_m}$ ($k_i \geq 0$), let $\text{ord } \theta = \sum_{i=1}^m k_i$, and for any $r \geq 0$, let $\Theta(r) = \{\theta \in \Theta \mid \text{ord } \theta \leq r\}$. Furthermore, let $L = K\langle \eta_1, \dots, \eta_n \rangle$ be a differential field extension of K generated by a finite set $\eta = \{\eta_1, \dots, \eta_n\}$. (As a field, $L = K(\{\theta \eta_j \mid \theta \in \Theta, 1 \leq j \leq n\})$.)*

Then there exists a polynomial $\omega_{\eta|K}(t) \in \mathbb{Q}[t]$ such that

(i) $\omega_{\eta|K}(r) = \text{trdeg}_K K(\{\theta \eta_j \mid \theta \in \Theta(r), 1 \leq j \leq n\})$ for all sufficiently large $r \in \mathbb{Z}$;

(ii) $\deg \omega_{\eta|K} \leq m$ and $\omega_{\eta|K}(t)$ can be written as $\omega_{\eta|K}(t) = \sum_{i=0}^m a_i \binom{t+i}{i}$

where $a_0, \dots, a_m \in \mathbb{Z}$;

(iii) $d = \deg \omega_{\eta|K}$, a_m and a_d do not depend on the choice of the system of Δ -generators η of the extension L/K (clearly, $a_d \neq a_m$ iff $d < m$, that is $a_m = 0$). Moreover, a_m is equal to the differential transcendence degree of L .

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**Alexander V. Mikhalev, A.B. Levin, E.V.
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Table of Contents Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998

1. Understanding the eBook Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
 - The Rise of Digital Reading Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Differential And Difference Dimension Polynomials Author A V Mikhalev Published On

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- User-Friendly Interface

4. Exploring eBook Recommendations from Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998

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- Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998 User Reviews and Ratings
- Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998 and Bestseller Lists

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- Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998 eBook Subscription Services
- Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998 Budget-Friendly Options

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- ePub, PDF, MOBI, and More
- Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998 Compatibility with Devices
- Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998 Enhanced eBook Features

7. Enhancing Your Reading Experience

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- Highlighting and Note-Taking Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
- Interactive Elements Differential And Difference Dimension Polynomials Author A V Mikhalev Published On

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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
9. Balancing eBooks and Physical Books Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
 - Setting Reading Goals Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
 - Fact-Checking eBook Content of Differential And Difference Dimension Polynomials Author A V Mikhalev Published On December 1998
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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