

#### SL(n) Contravariant $L_p$ Harmonic Valuations on Polytopes

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#### Abstract

All SL(n) contravariant  $L_p$  harmonic valuations on convex polytopes are completely classified without homogeneity assumptions.

Keywords Convex ploytope - SL(n) contravariance - Valuation

Mathematics Subject Classification 52B45 - 52A20

#### 1 Introduction

Let  $Q^n$  be a subset of  $K^n$ , the set of convex bodies in  $\mathbb{R}^n$ , and let A be an abelian semigroup. A function  $\Phi: Q^n \to (A, +)$  is called a *valuation* if

$$\Phi(K \cup L) + \Phi(K \cap L) = \Phi(K) + \Phi(L) \tag{1.1}$$

for all  $K, L \in \mathcal{Q}^n$  with  $K \cup L, K \cap L \in \mathcal{Q}^n$ . Valuations on convex bodies are a classical concept going back to Dehn's solution in 1900 of Hilbert's Third Problem. Probably the most famous result on valuations is Hadwiger's classification theorem of continuous rigid motion invariant valuations [19]. For detailed information and a historical account on valuations on convex bodies, see [10,21,45]. See also [1–3,11–17,20,23–32,41,42] for some of the for more recent contributions.

Let K be a compact starshaped subset in  $\mathbb{R}^n$ . Its Minkowski functional  $\|\cdot\|_K$  is defined by

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#### **Table of Contents Lp Harmonic Analysis Of Sl**

- 1. Understanding the eBook Lp Harmonic Analysis Of Sl
  - The Rise of Digital Reading Lp Harmonic Analysis Of Sl
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Lp Harmonic Analysis Of Sl
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - $\circ\,$  Features to Look for in an Lp Harmonic Analysis Of Sl
  - o User-Friendly Interface
- 4. Exploring eBook Recommendations from Lp Harmonic Analysis Of Sl
  - Personalized Recommendations
  - Lp Harmonic Analysis Of Sl User Reviews and Ratings
  - $\circ\,$  Lp Harmonic Analysis Of Sl and Bestseller Lists
- 5. Accessing Lp Harmonic Analysis Of Sl Free and Paid eBooks
  - Lp Harmonic Analysis Of Sl Public Domain eBooks
  - Lp Harmonic Analysis Of Sl eBook Subscription Services

- Lp Harmonic Analysis Of Sl Budget-Friendly Options
- 6. Navigating Lp Harmonic Analysis Of Sl eBook Formats
  - o ePub, PDF, MOBI, and More
  - Lp Harmonic Analysis Of Sl Compatibility with Devices
  - Lp Harmonic Analysis Of Sl Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lp Harmonic Analysis Of Sl
  - Highlighting and Note-Taking Lp Harmonic Analysis Of Sl
  - Interactive Elements Lp Harmonic Analysis Of Sl
- 8. Staying Engaged with Lp Harmonic Analysis Of Sl
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lp Harmonic Analysis Of Sl
- 9. Balancing eBooks and Physical Books Lp Harmonic Analysis Of Sl
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lp Harmonic Analysis Of Sl
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lp Harmonic Analysis Of Sl
  - Setting Reading Goals Lp Harmonic Analysis Of Sl
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lp Harmonic Analysis Of Sl
  - Fact-Checking eBook Content of Lp Harmonic Analysis Of Sl
  - 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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