



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 polytope · SL(n) contravariance · Valuation

Mathematics Subject Classification 52B45 · 52A20

1 Introduction

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

$$\Phi(K \cup L) + \Phi(K \cap L) = \Phi(K) + \Phi(L) \quad (1.1)$$

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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Lp Harmonic Analysis Of Sl

Marcel A. Müller



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Table of Contents Lp Harmonic Analysis Of SI

1. Understanding the eBook Lp Harmonic Analysis Of SI
 - The Rise of Digital Reading Lp Harmonic Analysis Of SI
 - Advantages of eBooks Over Traditional Books
2. Identifying Lp Harmonic Analysis Of SI
 - 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 Lp Harmonic Analysis Of SI
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lp Harmonic Analysis Of SI
 - Personalized Recommendations
 - Lp Harmonic Analysis Of SI User Reviews and Ratings
 - Lp Harmonic Analysis Of SI and Bestseller Lists
5. Accessing Lp Harmonic Analysis Of SI Free and Paid eBooks
 - Lp Harmonic Analysis Of SI Public Domain eBooks
 - Lp Harmonic Analysis Of SI eBook Subscription Services
 - Lp Harmonic Analysis Of SI Budget-Friendly Options
6. Navigating Lp Harmonic Analysis Of SI eBook Formats

- 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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