

<<插值空间引论>>

图书基本信息

书名：<<插值空间引论>>

13位ISBN编号：9787506260114

10位ISBN编号：7506260115

出版时间：2003-6

出版时间：世界图书出版公司

作者：J.Bergh , J.Lofstrom 著

页数：207

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<插值空间引论>>

内容概要

The works of Jaak Peetre constitute the main body of this treatise. Important contributors are also J.L. Lions and A.P. Calderon, not to mention several others. We, the present authors, have thus merely compiled and explained the works of others (with the exception of a few minor contributions of our own). Let us mention the origin of this treatise. A couple of years ago, J. Peetre suggested to the second author, J. Lofstrom, writing a book on interpolation theory and he most generously put at Lofstrom's disposal an unfinished manuscript, covering parts of Chapter 1--3 and 5 of this book. Subsequently, Lofstrom prepared a first rough, but relatively complete manuscript of lecture notes. This was then partly rewritten and thoroughly revised by the first author, J. Bergh, who also prepared the notes and comment and most of the exercises.

书籍目录

Chapter 1. Some Classical Theorems 1.1. The Riesz-Thorin Theorem 1.2. Applications of the Riesz-Thorin Theorem 1.3. The Marcinkiewicz Theorem 1.4. An Application of the Marcinkiewicz Theorem 1.5. Two Classical Approximation Results 1.6. Exercises 1.7. Notes and Comment

Chapter 2. General Properties of Interpolation Spaces 2.1. Categories and Functors 2.2. Normed Vector Spaces 2.3. Couples of Spaces 2.4. Definition of Interpolation Spaces 2.5. The Aronszajn-Gagliardo Theorem 2.6. A Necessary Condition for Interpolation 2.7. A Duality Theorem 2.8. Exercises 2.9. Notes and Comment

Chapter 3. The Real Interpolation Method 3.1. The K-Method 3.2. The J-Method 3.3. The Equivalence Theorem 3.4. Simple Properties of $A_{\theta, q}$ 3.5. The Reiteration Theorem 3.6. A Formula for the K-Functional 3.7. The Duality Theorem 3.8. A Compactness Theorem 3.9. An Extremal Property of the Real Method 3.10. Quasi-Normed Abelian Groups 3.11. The Real Interpolation Method for Quasi-Normed Abelian Groups 3.12. Some Other Equivalent Real Interpolation Methods 3.13. Exercises 3.14. Notes and Comment

Chapter 4. The Complex Interpolation Method 4.1. Definition of the Complex Method 4.2. Simple Properties of A_{θ} 4.3. The Equivalence Theorem 4.4. Multilinear Interpolation 4.5. The Duality Theorem 4.6. The Reiteration Theorem 4.7. On the Connection with the Real Method 4.8. Exercises 4.9. Notes and Comment

Chapter 5. Interpolation of L_p -Spaces 5.1. Interpolation of L_p -Spaces: the Complex Method 5.2. Interpolation of L_p -Spaces: the Real Method 5.3. Interpolation of Lorentz Spaces 5.4. Interpolation of L_p -Spaces with Change of Measure: $P_0 = P_1$ 5.5. Interpolation of L_a -Spaces with Change of Measure: $P_0 \neq P_1$ 5.6. Interpolation of L_a -Spaces of Vector-Valued Sequences 5.7. Exercises 5.8. Notes and Comment

Chapter 6. Interpolation of Sobolev and Besov Spaces 6.1. Fourier Multipliers 6.2. Definition of the Sobolev and Besov Spaces 6.3. The Homogeneous Sobolev and Besov Spaces 6.4. Interpolation of Sobolev and Besov Spaces 6.5. An Embedding Theorem 6.6. A Trace Theorem 6.7. Interpolation of Semi-Groups of Operators 6.8. Exercises 6.9. Notes and Comment

Chapter 7. Applications to Approximation Theory 7.1. Approximation Spaces 7.2. Approximation of Functions 7.3. Approximation of Operators 7.4. Approximation by Difference Operators 7.5. Exercises 7.6. Notes and Comment

References List of Symbols Subject Index

<<插值空间引论>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>