

3.3.3 σ -Algebra \mathcal{H} of \mathbb{H}^n and \mathbb{H}^n -measurability

Definition

$$\mathcal{H} = \{A \subset \mathbb{H}^n : \exists B \in \mathcal{B}(\mathbb{R}^n) \text{ such that } A = B \times \{0\}\}$$

1

\mathbb{H}^n -measurability: $f: \mathbb{H}^n \rightarrow \mathbb{R}$ is \mathbb{H}^n -measurable iff $f|_B$ is \mathbb{R}^n -measurable for all $B \in \mathcal{B}(\mathbb{R}^n)$

Executive Summary

The following information is provided for informational purposes only and is not intended to constitute an offer or a recommendation to buy or sell securities. The information is not intended to be relied upon in making an investment decision. The information is provided for informational purposes only and is not intended to constitute an offer or a recommendation to buy or sell securities. The information is not intended to be relied upon in making an investment decision.

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Introduction

The first part of the book is devoted to the study of the H^1 -norm of the solution of the Dirichlet problem for the Laplace equation in a domain Ω with a smooth boundary. The main result is the estimate of the H^1 -norm of the solution in terms of the L^2 -norm of the boundary data. This estimate is obtained by using the method of the L^2 -estimates of the normal derivative of the solution. The second part of the book is devoted to the study of the H^1 -norm of the solution of the Dirichlet problem for the Laplace equation in a domain Ω with a smooth boundary. The main result is the estimate of the H^1 -norm of the solution in terms of the L^2 -norm of the boundary data. This estimate is obtained by using the method of the L^2 -estimates of the normal derivative of the solution.

The third part of the book is devoted to the study of the H^1 -norm of the solution of the Dirichlet problem for the Laplace equation in a domain Ω with a smooth boundary. The main result is the estimate of the H^1 -norm of the solution in terms of the L^2 -norm of the boundary data. This estimate is obtained by using the method of the L^2 -estimates of the normal derivative of the solution. The fourth part of the book is devoted to the study of the H^1 -norm of the solution of the Dirichlet problem for the Laplace equation in a domain Ω with a smooth boundary. The main result is the estimate of the H^1 -norm of the solution in terms of the L^2 -norm of the boundary data. This estimate is obtained by using the method of the L^2 -estimates of the normal derivative of the solution.

Chapter 1

The first part of the chapter is devoted to the study of the H^1 -norm of the solution of the Dirichlet problem for the Laplace equation in a domain Ω with a smooth boundary. The main result is the estimate of the H^1 -norm of the solution in terms of the L^2 -norm of the boundary data. This estimate is obtained by using the method of the L^2 -estimates of the normal derivative of the solution.

The second part of the chapter is devoted to the study of the H^1 -norm of the solution of the Dirichlet problem for the Laplace equation in a domain Ω with a smooth boundary. The main result is the estimate of the H^1 -norm of the solution in terms of the L^2 -norm of the boundary data. This estimate is obtained by using the method of the L^2 -estimates of the normal derivative of the solution.

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2:B

3: A 3: B 3: C 3: D 3: E 3: F 3: G 3: H 3: I 3: J 3: K 3: L 3: M 3: N 3: O 3: P 3: Q 3: R 3: S 3: T 3: U 3: V 3: W 3: X 3: Y 3: Z

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4:C

3: A 3: B 3: C 3: D 3: E 3: F 3: G 3: H 3: I 3: J 3: K 3: L 3: M 3: N 3: O 3: P 3: Q 3: R 3: S 3: T 3: U 3: V 3: W 3: X 3: Y 3: Z

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