

## <<函数结构>>

### 图书基本信息

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### 前言

This book deals with the symbiotic relationship between I Quarkonial decompositions of functions , on the one hand , and Sharp inequalities and embeddings in function spaces , Fractal elliptic operators , IV Regularity theory for some semi-linear equations , on the other hand .

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## 内容概要

this book is mainly based on the results of the author and his co-workers obtained in the last few years. we tried to present the material in such a way that the main ideas can be understood independently of the existing literature. on the other hand, after proving in chapter i that the function spaces introduced via quarkonial decompositions coincide with the well-established spaces  $b_{8pq}$  and  $f_{spq}$  we feel free to use known results about these spaces, especially when we have nothing new to say about the assertions used. a reader who is mostly interested in the material presented in one of the chapters ii, iii, or iv, which are largely independent of each other, may skip chapter i, at the first glance. but most of the related proofs in these chapters depend substantially on the theory developed in the first chapter. it is a pleasure to acknowledge the great help i have received from my co-laborators in jena, in particular dorothee haroske and winfried sickel, who made valuable suggestions which have been incorporated in the text. i am especially indebted to dorothee haroske for producing all the figures in this book. last, but not least, i wish to thank my friend and colleague david edmunds in brighton who looked through the whole manuscript and offered many comments.

## <<函数结构>>

### 书籍目录

preface i decompositions of functions 1 introduction, heuristics, and preliminaries 2 spaces on  $\mathbb{R}^n$ : the regular case 3  
 spaces on  $\mathbb{R}^n$ : the general case 4 an application: the fubini property 5 spaces on domains: localization and hardy  
 inequalities 6 spaces on domains: decompositions 7 spaces on manifolds 8 taylor expansions of distributions 9  
 traces on sets, related function spaces and their decompositions ii sharp inequalities 10 introduction: outline of  
 methods and results 11 classical inequalities 12 envelopes 13 the critical case 14 the super-critical case 15 the  
 sub-critical case 16 hardy inequalities 17 complements .iii fractal elliptic operators 18 introduction 19 spectral  
 theory for the fractal laplacian 20 the fractal dirichlet problem 21 spectral theory on manifolds 22 isotropic fractals  
 and related function spaces 23 isotropic fractal drums iv truncations and semi-linear equations 24 introduction 25  
 truncations 26 the  $q$ -operator 27 semi-linear equations; the  $q$ -method references symbols index

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