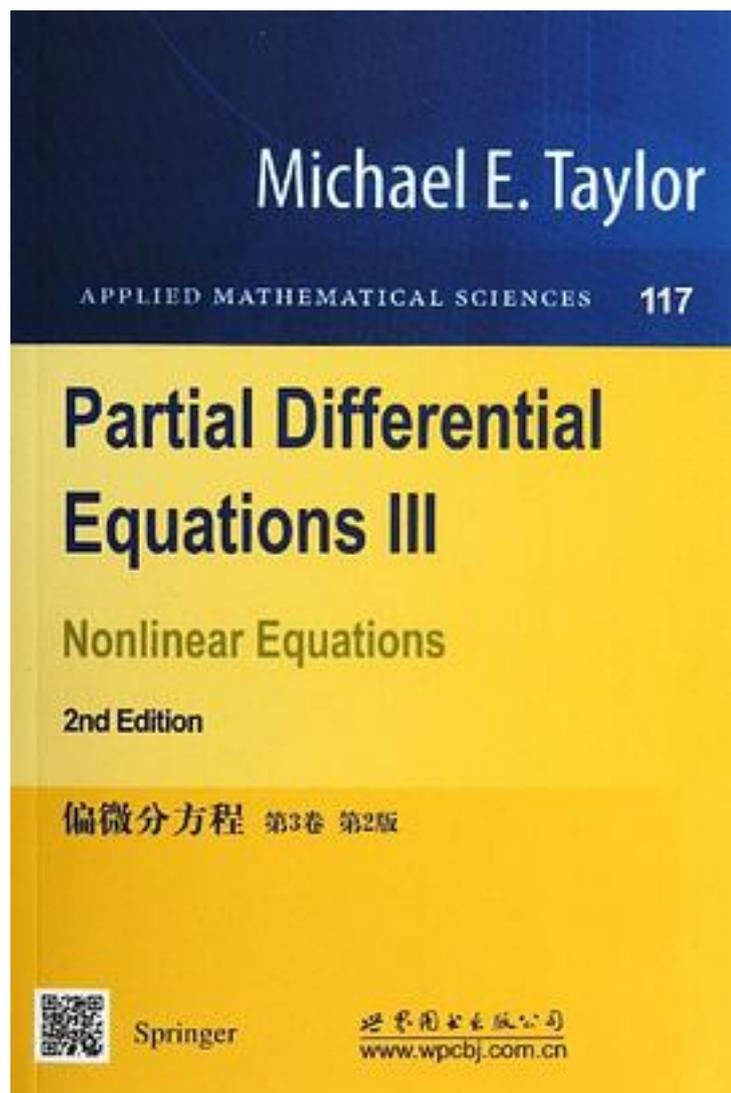


偏微分方程(第3卷)(第2版)



[偏微分方程\(第3卷\)\(第2版\) 下载链接1](#)

著者:Michael E. Taylor

出版者:世界图书出版公司

出版时间:2013-1-1

装帧:平装

isbn:9787510068157

作者介绍:

目录: Contents of Volumes I and H

Preface

13 Function Space and Operator Theory for Nonlinear Analysis

1 LP-Sobolev spaces

2 Sobolev imbedding theorems

3 Gagliardo-Nirenberg-Moser estimates

4 Trudinger's inequalities

5 Singular integral operators on L_p

6 The spaces H_s^p

7 LP-spectral theory of the Laplace operator

8 Holder spaces and Zygmund spaces

9 Pseudodifferential operators with nonregular symbols

10 Paradifferential operators

11 Young measures and fuzzy functions

12 Hardy spaces

A Variations on complex interpolation

References

14 Nonlinear Elliptic Equations

1 A class of semilinear equations

2 Surfaces with negative curvature

3 Local solvability of nonlinear elliptic equations

4 Elliptic regularity I (interior estimates)

5 Isometric imbedding of Riemannian manifolds

6 Minimal surfaces

6B Second variation of area

7 The minimal surface equation

8 Elliptic regularity II (boundary estimates)

9 Elliptic regularity III (DeGiorgi-Nash-Moser theory)

10 The Dirichlet problem for quasi-linear elliptic equations

11 Direct methods in the calculus of variations

12 Quasi-linear elliptic systems

12B Further results on quasi-linear systems

13 Elliptic regularity IV (Krylov-Safonov estimates)

14 Regularity for a class of completely nonlinear equations

15 Monge-Ampere equations

16 Elliptic equations in two variables

A Morrey spaces

B Leray-Schauder fixed-point theorems

References

15 Nonlinear Parabolic Equations

1 Semilinear parabolic equations

2 Applications to harmonic maps

3 Semilinear equations on regions with boundary

4 Reaction-diffusion equations

5 A nonlinear Trotter product formula

6 The Stefan problem

7 Quasi-linear parabolic equations I

8 Quasi-linear parabolic equations II (sharper estimates)

9 Quasi-linear parabolic equations III (Nash-Moser estimates)

References

- 16 Nonlinear Hyperbolic Equations
- 1 Quasi-linear, symmetric hyperbolic systems
- 2 Symmetrizable hyperbolic systems
- 3 Second-order and higher-order hyperbolic systems
- 4 Equations in the complex domain and the Cauchy-Kowalewsky theorem
- 5 Compressible fluid motion
- 6 Weak solutions to scalar conservation laws; the viscosity method
- 7 Systems of conservation laws in one space variable; Riemann problems
- 8 Entropy-flux pairs and Riemann invariants
- 9 Global weak solutions of some 2×2 systems
- 10 Vibrating strings revisited

References

- 17 Euler and Navier-Stokes Equations for Incompressible Fluids
- 1 Euler's equations for ideal incompressible fluid flow
- 2 Existence of solutions to the Euler equations
- 3 Euler flows on bounded regions
- 4 Navier-Stokes equations
- 5 Viscous flows on bounded regions
- 6 Vanishing viscosity limits
- 7 From velocity field convergence to flow convergence

A Regularity for the Stokes system on bounded domains

References

- 18 Einstein's Equations
- 1 The gravitational field equations
- 2 Spherically symmetric spacetimes and the Schwarzschild solution
- 3 Stationary and static spacetimes
- 4 Orbits in Schwarzschild spacetime
- 5 Coupled Maxwell-Einstein equations
- 6 Relativistic fluids
- 7 Gravitational collapse
- 8 The initial-value problem
- 9 Geometry of initial surfaces
- 10 Time slices and their evolution

References

Index

• • • • • ([收起](#))

[偏微分方程\(第3卷\)\(第2版\)_下载链接1](#)

标签

偏微分方程

偏微分方程7

#MathsPh

评论

[偏微分方程\(第3卷\)\(第2版\) 下载链接1](#)

书评

[偏微分方程\(第3卷\)\(第2版\) 下载链接1](#)