Basic Theory of Fractional Differential Equations

Yong Zhou

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This invaluable book is devoted to a rapidly developing area on the research of the qualitative theory of fractional differential equations. It is self-contained and unified in presentation, and provides readers the necessary background material required to go further into the subject and explore the rich research literature.

The tools used include many classical and modern nonlinear analysis methods such as fixed point theory, measure of noncompactness method, topological degree method, the Picard operators technique, critical point theory and semigroups theory. Based on research work carried out by the author and other experts during the past four years, the contents are very new and comprehensive. It is useful to researchers and graduate students for research, seminars, and advanced graduate courses, in pure and applied mathematics, physics, mechanics, engineering, biology, and related disciplines.

Contents:

- ○ Infinite Solutions for BVP with Left and Right Fractional Integrals
- ○ Existence of Solutions for BVP with Left and Right Fractional Derivatives
- ○ Notes and Remarks
- *Fractional Partial Differential Equations:*
  - ○ Introduction
  - ○ Fractional Euler-Lagrange Equations
  - ○ Time-Fractional Diffusion Equations
  - ○ Fractional Hamiltonian Systems
  - ○ Fractional Schrödinger Equations
  - ○ Notes and Remarks

Readership: Graduate students and researchers in the fields of fractional differential equations, fractional calculus and related areas of research.

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