

Partial Differential Equations, 2nd Edition, L.C.Evans

Chapter 5 Sobolev Spaces

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Abstract

In these exercises U always denote an open set of $\mathbb{R}^n$ with smooth boundary ∂U . As usual, all given functions are assumed smooth, unless otherwise stated.

1. Suppose $k \in \mathbb{Z}_{\geq 0}$, $0 < \gamma \leq 1$. Show that $C^{0,\gamma}(\mathcal{U})$ is a Banach space.

Proof. We prove the case $k = 0$ for simplicity. The general case is almost the same (except we need the standard convergence theorem between $\{f_n\}$ and $\{Df_n\}$).

Given a Cauchy sequence $\{f_n\} \subset C^{0,\gamma}(\mathcal{U})$, then there is a $f \in C(\mathcal{U})$ such that $f_n \rightarrow f$ uniformly and a constant $M > 0$ such that for each $n \in \mathbb{N}$ and $s \neq t$,

$$\frac{|f_n(s) - f_n(t)|}{|s - t|^\gamma} \leq M.$$

Then for each $s \neq t$, there is some $N = N(s, t) \in \mathbb{N}$ such that

$$\begin{aligned} |f(s) - f(t)| &\leq |f(s) - f_N(s)| + |f_N(s) - f_N(t)| + |f_N(t) - f(t)| \\ &\leq 2|s - t|^\gamma + M|s - t|^\gamma. \end{aligned}$$

Therefore, $f \in C^{0,\gamma}(\mathcal{U})$. It remains to show $f_n \rightarrow f$ in $C^{0,\gamma}(\mathcal{U})$. For each $s, t \in U$ and $\epsilon > 0$, by Cauchy's criteria, we can find a $N = N(\epsilon)$ such that for $k, n \geq N$

$$|f_k(s) - f_n(s) - f_k(t) + f_n(t)| \leq \epsilon|s - t|^\gamma$$

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Lei Huang



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