

**Errata for “Partial Differential Equations”, AMS Press
Third printing of Second Edition (2022)
by Lawrence C. Evans**

These corrections are for mistakes present in the third printing of the second edition.

Last modified: May 23, 2024.

CHAPTER 1

CHAPTER 2

page 36, line 7: To show that u defined by formula (33) is smooth, we need to justify differentiating under the integral. I leave this as an exercise, with the hint that

$$|x + hz|^2 \geq (x_n + hz_n)^2 \geq \gamma > 0$$

for h and $|z|$ small enough.

CHAPTER 3

page 145, line -8: v_x should be v_x^ϵ .

CHAPTER 4

page 231, line 5: Change $\mathbf{u}_{x_j}^{l*}$ to $u_{x_j}^{l*}$ and multiply the right-hand side by the vector $(1, \dots, 1)$.

page 231, lines 12-15: Change all r to s .

CHAPTER 5

CHAPTER 6

CHAPTER 7

CHAPTER 8

CHAPTER 9

CHAPTER 10

page 553, line -1: Insert this comment:

Remark: Our requirement (3) that H be globally Lipschitz continuous with respect to p is in practice not restrictive, provided we know that our viscosity solution u is globally Lipschitz in x . In this case the values of H for large $|p|$ are irrelevant. \square

CHAPTER 11**CHAPTER 12****APPENDICES, INDEX, REFERENCES**

page 665, line 17: Rewrite to read “... $U \subset \mathbb{R}^n$ for $n > 1$...”

Thanks to C. Aksan, N.Allmeier, L. Riewe, A. Sudan, N. Tzvetkov and Y. Yan for finding mistakes and suggesting corrections.

Please let me know about any other errors you find, at evans@math.berkeley.edu.