

**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: November 24, 2025.

**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.

page 63, line -6: Rewrite to read “..force per unit area acting...”.

**CHAPTER 3**

page 145, line -8:  $v_x$  should be  $v_x^\epsilon$ .

**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**

page 540, line 13-14: Should be “Bauman, Chen, Phillips and Sternberg”.

**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.  $\square$

page 559, line -5:  $\alpha(s)$  should be  $\hat{\alpha}(s)$

**CHAPTER 11**

page 593, line 4: Should be  $u_r \in T_k(u_l)$ .

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

page 660, line -13: Should be “literature”

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

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