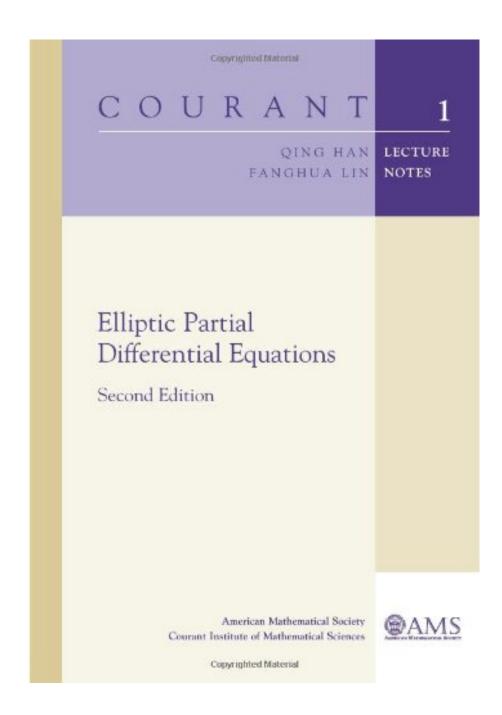


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About the Author

Qing Han, University of Notre Dame, IN. Fanghua Lin, Courant Institute, New York University, N

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Sales Rank: #762074 in Books
Published on: 2011-02-28
Original language: English

• Number of items: 1

• Dimensions: 9.75" h x 6.75" w x .25" l, .0 pounds

• Binding: Paperback

• 147 pages

About the Author

Qing Han, University of Notre Dame, IN. Fanghua Lin, Courant Institute, New York University, N

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A frustrating but rewarding journey

By Sebastien Picard

This book is a great introduction to elliptic PDEs. My main interest are geometric analysis, and this book covers essential topics for application to PDEs appearing in geometry. Examples of such topics which are ubiquitous in geometric analysis include maximum principles, Moser iteration, Harnack inequalities, Schauder estimates and the continuity method.

The prerequisites are a graduate course in analysis, and knowledge of Sobolev spaces equivalent to chapter 5 in Evans' book "Partial Differential Equations".

Although the topics are fascinating, this text leaves rather large gaps for the reader to fill in. This can be seen as a good thing, since it forces the reader to get his hands dirty and dig deeper into the material. However, I was sometimes unable to fill the gap and had to ask a professor or consult other sources on the internet. This happened for example when the end of a proof was left to a "standard covering argument", which in my opinion was tricky to complete if one hadn't seen such a kind of argument before. Since many of the gaps are much more than a straight-forward calculation, this makes the textbook extremely frustrating for the beginner.

With the occasional help of someone who already knows the material, struggling through this textbook is a rewarding experience for the beginner of elliptic PDEs. As an added bonus, the book is relatively short, and cheap!

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