



Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext)

By Dorina Mitrea

Download now

Read Online 

Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea

?The theory of distributions constitutes an essential tool in the study of partial differential equations. This textbook would offer, in a concise, largely self-contained form, a rapid introduction to the theory of distributions and its applications to partial differential equations, including computing fundamental solutions for the most basic differential operators: the Laplace, heat, wave, Lam'e and Schrodinger operators.?

 [Download Distributions, Partial Differential Equations, and ...pdf](#)

 [Read Online Distributions, Partial Differential Equations, a ...pdf](#)

Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext)

By Dorina Mitrea

Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea

?The theory of distributions constitutes an essential tool in the study of partial differential equations. This textbook would offer, in a concise, largely self-contained form, a rapid introduction to the theory of distributions and its applications to partial differential equations, including computing fundamental solutions for the most basic differential operators: the Laplace, heat, wave, Lam'e and Schrodinger operators.?

Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea
Bibliography

- Sales Rank: #2982528 in Books
- Published on: 2013-09-20
- Released on: 2013-09-20
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.09" w x 6.10" l, 1.48 pounds
- Binding: Paperback
- 460 pages



[Download Distributions, Partial Differential Equations, and ...pdf](#)



[Read Online Distributions, Partial Differential Equations, a ...pdf](#)

Download and Read Free Online Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea

Editorial Review

Review

“The book is very carefully written and its emphasis on applications in partial differential equations does justice to the nature and importance of the theory of distributions in modern analysis. An attractive feature of this work is the large number of exercises including solutions, both interspersed in the text and following each chapter. It is an ideal starting point to delve into the theory of distributions.” (M. Kunzinger, *Monatshefte für Mathematik*, 2015)

“The monograph under consideration aims at a thorough introduction to ideas and techniques of distribution theory with application to partial differential equations. ... the first part of this book is an excellent and carefully written introduction to the ideas and first applications of distribution theory which can be recommended for self-study for graduate students, while the second part contains a great variety of explicit formulas for tempered fundamental solutions interesting for the specialists in that area.” (Michael Langenbruch, *zbMATH* 1308.46002, 2015)

“The book under review deals with the distribution theory and its applications to partial differential equations. ... proofs are extremely detailed for the benefit of beginners, and there are a large number of exercises, more than half of which are accompanied by solutions. ... one appreciates the author’s remarkable effort to present the subject in a form as clear and accessible as possible This makes this textbook ideal for upper undergraduate to graduate level courses on the subject.” (Fabio Nicola, *Mathematical Reviews*, September, 2014)

From the Back Cover

The aim of this book is to offer, in a concise, rigorous, and largely self-contained manner, a rapid introduction to the theory of distributions and its applications to partial differential equations and harmonic analysis.

The book is written in a format suitable for a graduate course spanning either over one-semester, when the focus is primarily on the foundational aspects, or over a two-semester period that allows for the proper amount of time to cover all intended applications as well. It presents a balanced treatment of the topics involved, and contains a large number of exercises (upwards of two hundred, more than half of which are accompanied by solutions), which have been carefully chosen to amplify the effect, and substantiate the power and scope, of the theory of distributions.

Graduate students, professional mathematicians, and scientifically trained people with a wide spectrum of mathematical interests will find this book to be a useful resource and complete self-study guide.

Throughout, a special effort has been made to develop the theory of distributions not as an abstract edifice but rather give the reader a chance to see the rationale behind various seemingly technical definitions, as well as the opportunity to apply the newly developed tools (in the natural build-up of the theory) to concrete problems in partial differential equations and harmonic analysis, at the earliest opportunity.

About the Author

Dorina Mitrea is a Professor at University of Missouri in the Mathematics Department.

Users Review

From reader reviews:

Ramona Johnson:

This Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) are reliable for you who want to certainly be a successful person, why. The explanation of this Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) can be one of several great books you must have is giving you more than just simple studying food but feed an individual with information that perhaps will shock your prior knowledge. This book is usually handy, you can bring it just about everywhere and whenever your conditions at e-book and printed versions. Beside that this Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) forcing you to have an enormous of experience such as rich vocabulary, giving you trial run of critical thinking that we realize it useful in your day activity. So , let's have it and enjoy reading.

Gabrielle Ponds:

This book untitled Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) to be one of several books which best seller in this year, this is because when you read this guide you can get a lot of benefit in it. You will easily to buy that book in the book store or you can order it by way of online. The publisher in this book sells the e-book too. It makes you quicker to read this book, since you can read this book in your Mobile phone. So there is no reason to you personally to past this book from your list.

Gregory Sims:

The publication with title Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) has a lot of information that you can study it. You can get a lot of help after read this book. This book exist new information the information that exist in this e-book represented the condition of the world today. That is important to yo7u to find out how the improvement of the world. That book will bring you in new era of the syndication. You can read the e-book on the smart phone, so you can read this anywhere you want.

Joseph Mattie:

This Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) is new way for you who has intense curiosity to look for some information given it relief your hunger associated with. Getting deeper you into it getting knowledge more you know or you who still having little digest in reading this Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) can be the light food for yourself because the information inside this particular book is easy to get by simply anyone. These books produce itself in the form and that is reachable by anyone, sure I mean in the e-book type. People who think that in guide form make them feel drowsy even dizzy this e-book is the answer. So there is not any in reading a guide especially this one. You can find actually looking for. It should be here for an individual. So , don't

miss it! Just read this e-book type for your better life in addition to knowledge.

Download and Read Online Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea #F2R9DAW3PV7

Read Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea for online ebook

Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea books to read online.

Online Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea ebook PDF download

Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea Doc

Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea MobiPocket

Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea EPub

F2R9DAW3PV7: Distributions, Partial Differential Equations, and Harmonic Analysis (Universitext) By Dorina Mitrea