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**Recommended Text**

**Partial Differential Equations**
Lawrence C. Evans, University of California, Berkeley

**Introduction to Probability**
Second Revised Edition
Charles M. Grinstead, Swarthmore College, PA, and J. Laurie Snell, Dartmouth College, Hanover, NH 1997; ISBN 0-8218-0749-8; 510 pages; Hardcover; All AMS members $39, List $49. Order Code PROB.CI93

**Lectures on the Mathematics of Finance**
Ioannis Karatzas, Columbia University, NY
Provides an excellent introduction to a wide range of topics in mathematical finance.

—Mathematical Reviews

The young researcher/postgraduate student will be able to glance at the forefront of current research in mathematical finance. The author’s clear and careful writing makes reading a pleasure. A lot of material, hitherto available only in research papers, will now reach a wider audience. This is most useful addition to the fast growing literature on mathematical finance.

—Short Book Reviews, a publication of the International Statistical Institute

**Analysis**
Elliott H. Lieb, Princeton University, NJ, and Michael Loss, Georgia Institute of Technology, Atlanta
Lieb and Loss offer a practical presentation of real and functional analysis at the beginning graduate level ... could be used as a two-semester introduction to graduate analysis ... not all of the topics covered are typical. The authors introduce the subject with a thorough presentation ... [an] informative exposition.

—Choice

I find the selection of the material covered in the book very attractive and I recommend the book to anybody who wants to learn about classical as well as modern mathematical analysis.

—European Mathematical Society Newsletter

The text was used as a supplement resource ... appropriate because Lieb and Loss’s approach to this subject is quite unusual ... When looking at a particularly complicated set of ideas, I suggest [that students] “have a look at Lieb-Loss. They have a nice way of cutting through all the difficulties and giving you a real picture of what is going on” ... I would certainly recommend this book [as a supplemental text] to colleagues who are teaching graduate real analysis.

—Steven G. Krantz, Washington University, St. Louis

Analysis is a unique book. It is written very much from the perspective of a user of analysis ... I do not know of any other book that shows so well what it takes to do research in applied and variational analysis or to solve real analysis problems as they naturally arise in mathematical physics and quantum mechanics ... The book is also very attractively produced ... The AMS is setting a new standard ... proving that quality editions do not have to be expensive ... [Students] found the concrete and constructive nature of the approach in the book very attractive.

—Bruno Nachtergaele, University of California, Davis

The book was ideal for my purposes, which included some introduction to some problems in mathematical physics, some “reinforcement” of what I already learned in real variable, and a good overview of the inequalities that working analysts need to use ... I personally find the book an extremely useful and convenient reference for research purposes.

—Lawrence E. Thomas, University of Virginia, Charlottesville

The text can be used as a first year graduate course on real analysis or as an introduction to harmonic analysis and PDE. Advanced undergraduates can also have an independent reading after they complete an advanced calculus class ... It is a very interesting text. It is perhaps the best text for students wanting to specialize in harmonic analysis or PDE.

—Jose Barrionuevo, University of South Alabama, Mobile

Text is clear and rigorous and a joy to look at; both authors are to be congratulated.

—Dr. David B. Cook, University of Sheffield, UK

The essentials of modern analysis ... are presented in a rigorous and pedagogical way ... readers ... are guided to a level where they can read the current literature with understanding ... treatment of the subject is as direct as possible.

—Zentralblatt für Mathematik


**Wavelets, Vibrations and Scalings**
Yves Meyer, University of Paris-Dauphine, France

**Algebra**
Third Edition
Saunders Mac Lane and Garrett Birkhoff
Nearly any ten years there seems to arrive a new edition of this now classical book the review of which (1st edition 1967, Zbl. 153,324; 2nd edition 1979, Zbl. 428,00002) the reviewer hardly can improve. The main advantage of the authors had been the introduction of thoroughly categorical concepts into algebra.

—Zentralblatt für Mathematik

The book is clearly written, beautifully organized, and has an excellent and wide-ranging supply of exercises ... contains ample material for a full-year course on modern algebra at the undergraduate level.

—Mathematical Reviews


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