Textbooks for Graduate Study

These mathematical textbooks are excellent choices for graduate study. As course adoption texts, they contribute solidly to a well-developed mathematics education. Browse this select list when considering course texts, supplementary reading, or independent study.

Algebraic Geometry for Scientists and Engineers
Shreeram S. Abhyankar, Purdue University, West Lafayette, IN
Mathematical Surveys and Monographs, Volume 35; 1990; ISBN 0-8218-1535-0; 295 pages; Softcover; All AMS members $29, List $34, Order Code SURV/35CI85

C*-Algebras by Example
Kenneth R. Davidson, University of Waterloo, ON, Canada
The writing is clear and easy to follow ... an outstanding book that should be on every operator algebraists bookshelf.
—Mathematical Reviews

Local Fields and Their Extensions: A Constructive Approach
I. B. Fesenko, University of Nottingham, England, and S. V. Vostokov, Russian Academy of Sciences, St. Petersburg
It is remarkable to see just how far the subject has developed since 1968 ... contains an absolute wealth of material ... this approach is a real success ... results are obtained with a minimum of fuss, so that the story unfolds rather quickly and holds the reader's interest ... a copious supply of well-structured exercises ... most certainly a valuable addition to the literature ... carefully written and well-presented state of the art account of local fields, which contains much ... of interest to the expert and non-expert alike ... its appeal should go well beyond the usual public number of theorists.
—Bulletin of the London Mathematical Society

Partial Differential Equations
Harold Levine, Stanford University, CA
Titles in this series are copublished with International Press, Cambridge, MA.

Introduction to Probability
Ioannis Karatzas, Columbia University, New York, NY
CRM Monograph Series, Volume 8; 1996; ISBN 0-8218-0909-1; 148 pages; Softcover; All AMS members $39, List $49, Order Code CRMM/8CI85

Introduction to Algebraic Curves
Phillip A. Griffiths, Institute for Advanced Study, Princeton, NJ
Altogether, the author achieves his intended goal of providing a solid but elementary foundation of the theory of algebraic curves and compact Riemann surfaces in a masterly way.
—Mathematical Reviews

Lectures on the Mathematics of Finance
Ioannis Karatzas, Columbia University, New York, NY
Titles in this series are copublished with International Press, Cambridge, MA.
Lectures on Differential Galois Theory
Andy R. Magid, University of Oklahoma, Norman
The present book offers an elegant alternative approach to the Galois theory of linear homogeneous differential equations, based on the principle that the Galois correspondence should be obtained as a consequence of the algebraic group-theoretic construction of Picard-Vessiot extensions.
—Mathematical Reviews

Lectures on Differential Galois Theory
Andy R. Magid, University of Oklahoma, Norman
The self-contained introduction Magid's 100-page book provides should help the newcomer to proceed further into this beautiful and active field.
—Bulletin of the AMS

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