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Doing Mathematics discusses some ways mathematicians and mathematical physicists do their work and the subject matters they uncover and fashion. The conventions they adopt, the subject areas they delimit, what they can prove and calculate about the physical world, and the analogies they discover and employ, all depend on the mathematics — what will work out and what won't. The cases studied include the central limit theorem of statistics, the sound of the shape of a drum, the connections

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between algebra and topology, and the series of rigorous proofs of the stability of matter. The many and varied solutions to the two-dimensional Ising model of ferromagnetism make sense as a whole when they are seen in an analogy developed by Richard Dedekind in the 1880s to algebraicize Riemann's function theory; by Robert Langlands' program in number theory and representation theory; and, by the analogy between one-dimensional quantum mechanics and two-dimensional classical statistical mechanics. In effect, we begin to see "an identity in a manifold presentation of profiles," as the phenomenologists would say. This second edition deepens the particular examples; it describe the practical role of mathematical rigor; it

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suggests what might be a mathematician's philosophy of mathematics; and, it shows how an "ugly" first proof or derivation embodies essential features, only to be appreciated after many subsequent proofs. Natural scientists and mathematicians trade physical models and abstract objects, remaking them to suit their needs, discovering new roles for them as in the recent case of the Painlevé transcendents, the Tracy-Widom distribution, and Toeplitz determinants. And mathematics has provided the models and analogies, the ordinary language, for describing the everyday world, the structure of cities, or God's infinitude.

Contents: Introduction
Convention: How Means and Variances are Entrenched as

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Statistics
Subject: The Fields of
Topology
Appendix: The Two-
Dimensional Ising Model of a
Ferromagnet
Calculation: Strategy,
Structure, and Tactics in Applying
Classical Analysis
Analogy: A Syzygy
Between a Research Program in
Mathematics and a Research Program
in Physics
In Concreto: The City of
Mathematics
Appendices:
The Spontaneous Magnetization of a Two-
Dimensional Ising Model (C N
Yang)
On the Dirac and Schwinger
Corrections to the Ground-State Energy
of an Atom (C Fefferman and L A
Seco)
Sur la Forme des Espaces
Topologiques et sur les Points Fixes des
Représentations (J Leray)
Une Lettre à
Simone Weil (A Weil)
Readership:
Mathematicians, physicists,

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philosophers and historians of science.

Keywords: Means and

Variances; Topology; Syzygy

Reviews: Reviews of the First Edition: "The book

Doing Mathematics, by Martin Krieger

is truly a masterpiece. He has not only

explained ways of doing mathematical

work to aspiring mathematicians and

the intelligent laymen, but has also

shown how various pieces of research

work are related to each other. Even

experts may not have realized such inter-

relations. The cases studied include,

especially, the stability of matter and

the Ising model, two topics of great

depth. Such clear explanations cannot

be found anywhere else. Furthermore,

his style of writing makes the book

exceptionally enjoyable to read." T T

Wu Gordon McKay Professor of

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Applied Physics Professor of Physics,
Harvard University, USA "This is the
first time I have seen a mathematician
deal substantively with the issue of
mathematics as culturally based, and he
does it superbly and mathematically ...
Although this book is no easy read, it is
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Mathematical Reviews "Both
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Doing Mathematics sheds bright light
on some of the main characteristics of
the mathematical quest." Library of
Science "Krieger has made some effort
to accommodate different levels of
readers; for example, structuring his

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text so that lay readers are alerted to sections that can be safely skipped and paragraphs that provide nontechnical summaries." Mathematical Association of America

The author's goal for the book is that it's clearly written, could be read by a calculus student and would motivate them to engage in the material and learn more. Moreover, to create a text in which exposition, graphics, and layout would work together to enhance all facets of a student's calculus experience. They paid special attention to certain aspects of the text: 1. Clear, accessible exposition that anticipates and addresses student difficulties. 2. Layout and figures that communicate the flow of ideas. 3. Highlighted features that emphasize concepts and

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mathematical reasoning including Conceptual Insight, Graphical Insight, Assumptions Matter, Reminder, and Historical Perspective. 4. A rich collection of examples and exercises of graduated difficulty that teach basic skills as well as problem-solving techniques, reinforce conceptual understanding, and motivate calculus through interesting applications. Each section also contains exercises that develop additional insights and challenge students to further develop their skills.

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and Saleem Watson continue his legacy of providing students with the strongest foundation for a STEM future. Their careful refinements retain Stewart's clarity of exposition and make the 9th edition even more usable as a teaching tool for instructors and as a learning tool for students. Showing that Calculus is both practical and beautiful, the Stewart approach enhances understanding and builds confidence for millions of students worldwide.

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user feedback and classroom
experiences, the new edition
provides an even smoother
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experience. This volume
includes chapters 11-18 of the
Second Edition, for instructors
who just want the book's
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multivariable calculus.

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Calculus Late Transcendentals
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Now guided by a new author Colin Adams, this third edition for early transcendentals multivariable stays true to the late Jon Rogawski's refreshing and highly effective approach. It also draws on extensive feedback gathered from instructors and student alike, as well as making use of Adams' three decades of experience as a calculus teacher and author of math books for general audiences. As such, Calculus is the perfect fit for teaching the subject at university.

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Calculus: Early Transcendentals
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