

Mathematical Excursions

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An Excursion Through Partial Differential Equations Svetlin G. Georgiev, 2024-01-17 Presenting a rich collection of exercises on partial differential equations this textbook equips readers with 96 examples 222 exercises and 289 problems complete with detailed solutions or hints It explores a broad spectrum of partial differential equations fundamental to mathematically oriented scientific fields from physics and engineering to differential geometry and variational calculus Organized thoughtfully into seven chapters the journey begins with fundamental problems in the realm of PDEs Readers progress through first and second order equations wave and heat equations and finally the Laplace equation The text adopts a highly readable and mathematically solid format ensuring concepts are introduced with clarity and organization Designed to cater to upper undergraduate and graduate students this book offers a comprehensive understanding of partial differential equations Researchers and practitioners seeking to strengthen their problem solvingskills will also find this exercise collection both challenging and beneficial

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Local Times and Excursion Theory for Brownian Motion Ju-Yi Yen, Marc Yor, 2013-10-01 This monograph discusses the existence and regularity properties of local times associated to a continuous semimartingale as well as excursion theory for Brownian paths Realizations of Brownian excursion processes may be translated in terms of the realizations of a Wiener process under certain conditions With this aim in mind the monograph presents applications to topics which are not usually treated with the same tools e g arc sine law laws of functionals of Brownian motion and the Feynman Kac formula

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the conformal modules of conjugacy classes of elements of the fundamental group were proposed by Gromov in the case of the twice punctured complex plane. They provide obstructions to Gromov's Oka Principle. The invariants of the space of monic polynomials of degree n appeared earlier in relation to Hilbert's 13th Problem and are called the conformal modules of conjugacy classes of braids. Interestingly, the conformal module of a conjugacy class of braids is inversely proportional to a popular dynamical invariant, the entropy, which was studied in connection with Thurston's celebrated theory of surface homeomorphisms. This result, proved here for the first time, is another instance of the numerous manifestations of the unity of mathematics and it has applications. After prerequisites on Riemann surfaces, braids, mapping classes, and elements of Teichmüller theory, a detailed introduction to the entropy of braids and mapping classes is given, with thorough, sometimes new, proofs. Estimates are provided of Gromov's conformal invariants of the twice punctured complex plane, and it is shown that the upper and lower bounds differ by universal multiplicative constants. These imply estimates of the entropy of any pure three braid and yield quantitative statements on the limitations of Gromov's Oka Principle in the sense of finiteness theorems using conformal invariants, which are related to elements of the fundamental group, not merely to conjugacy classes. Further applications of the concept of conformal module are discussed. Aimed at graduate students and researchers, the book proposes several research problems.

Memoirs of an American Lady Anonymous, 2025-02-14. Delve into a remarkable portrayal of early American life with the timeless narrative *Memoirs of an American Lady*. This captivating work offers readers a rare glimpse into the social customs, cultural dynamics, and daily experiences of 18th-century colonial America. Written by an anonymous author, this memoir recounts the life and legacy of Mrs. Margaret Schuyler, a distinguished and influential figure in Albany, New York. Through vivid storytelling, readers are transported to a period marked by simplicity, hospitality, and close-knit community ties. *Memoirs of an American Lady* explores themes of resilience, cultural identity, and the complex relationships between settlers and Indigenous communities. The narrative highlights Mrs. Schuyler's grace, wisdom, and compassion, making her a symbol of strength and dignity during a transformative era in American history. The memoir offers valuable historical insights, painting a detailed picture of both personal and societal aspects of early American life. Its tone is warm and reflective, filled with admiration for the remarkable woman whose life it chronicles. Since its publication, *Memoirs of an American Lady* has been cherished for its authentic depiction of colonial America and its enduring themes of character, community, and cultural evolution. Readers continue to find inspiration in the story of Mrs. Schuyler and the rich history it preserves. Whether you're a history enthusiast, a lover of biographies, or simply seeking a window into early American life, *Memoirs of an American Lady* offers a compelling and enriching read. Get your copy today and experience a journey through the heart and soul of a bygone era.

Here's Looking at Euclid Alex Bellos, 2010-06-15. Too often, math gets a bad rap, characterized as dry and difficult. But Alex Bellos says math can be inspiring and brilliantly creative. Mathematical thought is one of the great achievements of the human race and arguably the foundation of all human progress.

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