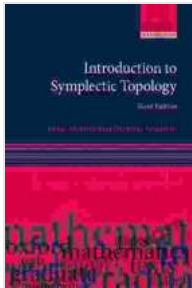


# Introduction to Symplectic Topology: A Guide to the Enigmatic Realm



## Introduction to Symplectic Topology (Oxford Graduate Texts in Mathematics) by Dusa McDuff

★★★★☆ 4.8 out of 5

Language : English

File size : 22902 KB

Print length : 632 pages

Lending : Enabled

Screen Reader: Supported



## Delve into the Intricate World of Symplectic Topology

Symplectic topology, a captivating branch of mathematics, delves into the study of symplectic manifolds, a special class of smooth manifolds endowed with a symplectic form. These manifolds find widespread applications in diverse areas such as Hamiltonian mechanics, geometric quantization, and algebraic geometry.

For graduate students and researchers seeking a comprehensive to this fascinating subject, "Introduction to Symplectic Topology" by Dusa McDuff and Dietmar Salamon stands as an indispensable resource. Published by the prestigious Oxford Graduate Texts in Mathematics series, this exceptional book meticulously unravels the intricate tapestry of symplectic topology, leading readers on an intellectually stimulating journey.

## Unraveling the Complexities of Symplectic Manifolds

The book commences by laying a solid foundation in the theory of symplectic manifolds. Readers will delve into the intrinsic properties of symplectic forms, exploring their topological and geometric implications. The authors deftly guide readers through key concepts such as symplectic cohomology, Floer homology, and Gromov-Witten invariants, providing a thorough understanding of the interplay between symplectic topology and other areas of mathematics.

Furthermore, the book delves into the rich connections between symplectic topology and Hamiltonian dynamics. Readers will gain insights into the fundamental principles governing the behavior of Hamiltonian systems, including symplectic integrators, KAM theory, and Arnold's conjecture. These insights illuminate the profound influence of symplectic topology on classical mechanics and its applications in physics.

### **A Comprehensive Guide for Aspiring Mathematicians**

" to Symplectic Topology" is meticulously crafted to serve as a comprehensive guide for graduate students and researchers seeking a deep understanding of the subject. The authors' lucid writing style and pedagogical approach make complex concepts accessible, fostering a thorough grasp of the material. Numerous exercises and examples are strategically interspersed throughout the text, providing ample opportunities for readers to test their understanding and engage with the presented ideas.

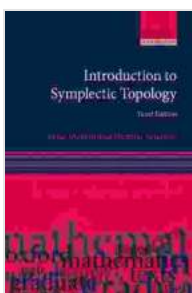
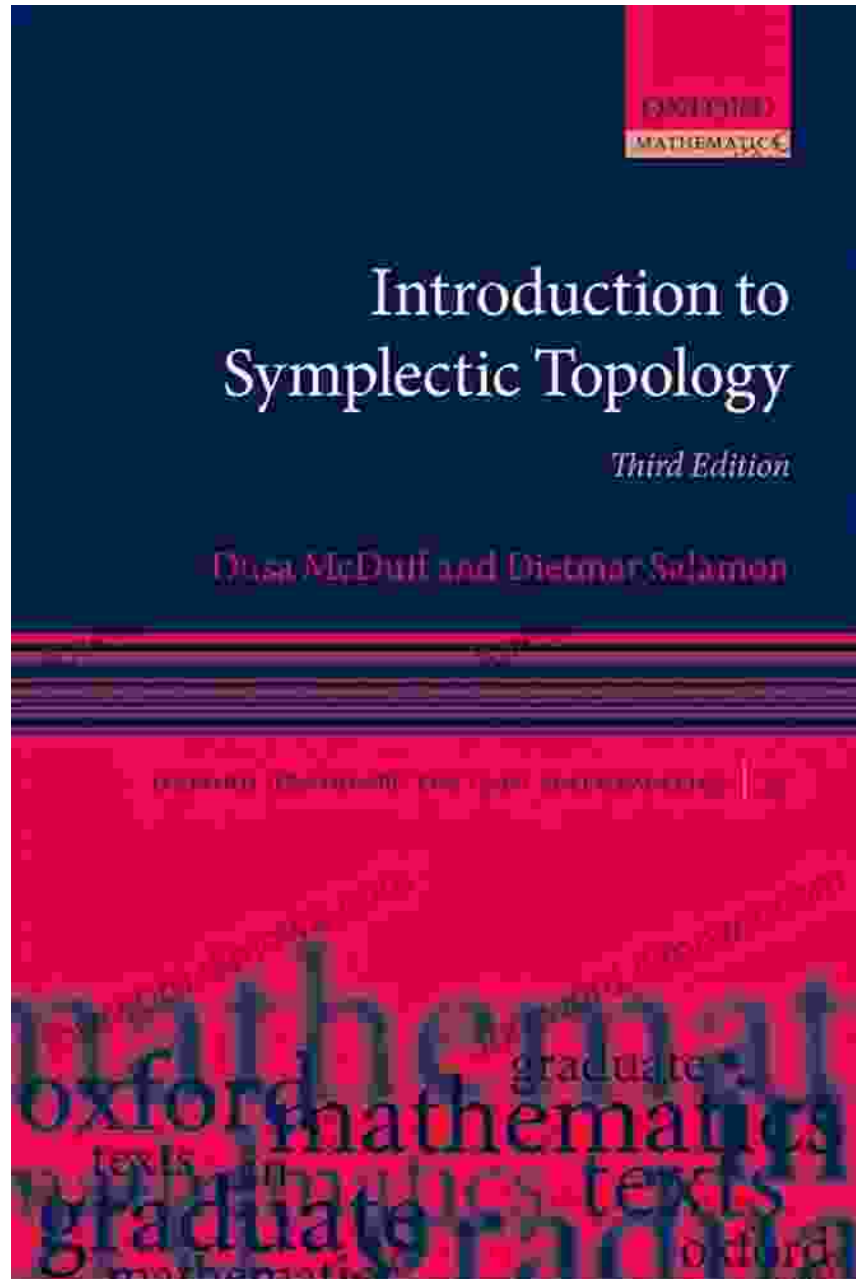
The book's comprehensive coverage of symplectic topology, coupled with its clear exposition and engaging examples, makes it an invaluable resource for anyone embarking on a journey into this captivating field. Whether you are a graduate student seeking a solid foundation or a

researcher pursuing advanced topics, " to Symplectic Topology" will prove to be an indispensable companion on your intellectual odyssey.

### **Embark on an Enthralling Intellectual Journey**

With its captivating narrative and rigorous exposition, " to Symplectic Topology" invites readers to embark on an intellectually stimulating journey into the enigmatic realm of symplectic topology. It is a must-have for anyone seeking to unravel the intricacies of symplectic manifolds, Hamiltonian dynamics, and their profound implications in mathematics and physics.

Free Download your copy today and delve into the captivating world of symplectic topology, where the boundaries of mathematical understanding are constantly pushed and new discoveries await those who dare to explore its depths.



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