

Schur Functions and Affine Schubert Calculus: A Fascinating Journey into Fields Institute Monographs 33

Are you ready to embark on an intellectual adventure that explores the intricate world of Schur Functions and Affine Schubert Calculus? If so, Fields Institute Monographs 33 is a must-read for you. In this article, we will delve into the captivating content of this publication, providing you with a comprehensive overview of its key concepts, applications, and significance in the field of mathematics.

to Schur Functions

Schur Functions, named after the eminent mathematician Issai Schur, are a significant mathematical tool used in various areas of mathematics, including combinatorics, representation theory, and algebraic geometry. These functions are deeply intertwined with a branch of algebraic geometry known as Schubert calculus, which deals with the study of intersections of subvarieties in Grassmannians.

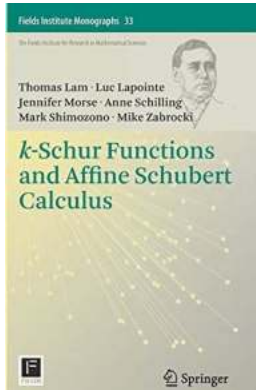
Fields Institute Monographs 33 offers a detailed exploration of Schur Functions, providing readers with a solid foundation in their theory, properties, and applications. The authors present a systematic and accessible approach, making this complex topic comprehensible to both experts and newcomers in the field.

k-Schur Functions and Affine Schubert Calculus (Fields Institute Monographs Book 33)

by Thomas Lam (2014th Edition, Kindle Edition)

★★★★★ 5 out of 5

Language : English



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Print length : 227 pages
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Hardcover : 136 pages
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Dimensions : 7 x 0.38 x 10 inches



Affine Schubert Calculus: A Deeper Dive

While Schur Functions are fascinating on their own, their connection to affine Schubert calculus further enriches their significance. Affine Schubert calculus involves the study of Schubert varieties in affine Grassmannians, where the projective setting is replaced with an affine one. This field has seen remarkable developments in recent years and has attracted the attention of mathematicians worldwide.

Fields Institute Monographs 33 provides an in-depth exploration of affine Schubert calculus, offering the most up-to-date advancements in the field. The authors present rigorous yet accessible results, making this book an invaluable resource for researchers and graduate students interested in expanding their knowledge in this exciting area of mathematics.

Key Concepts Explored in Fields Institute Monographs 33

Fields Institute Monographs 33 covers a wide range of key concepts related to Schur Functions and affine Schubert calculus. Some of the notable topics covered include:

- The theory of Schur Functions and their properties
- Combinatorial aspects of Schur Functions
- Affine Grassmannians and their connection to Schubert calculus
- Intersections of subvarieties in Grassmannians
- The geometry of Schubert varieties in affine Grassmannians

Through its comprehensive coverage of these topics, this book ensures that readers gain a profound understanding of the subject matter, enhancing their ability to make meaningful contributions to the field.

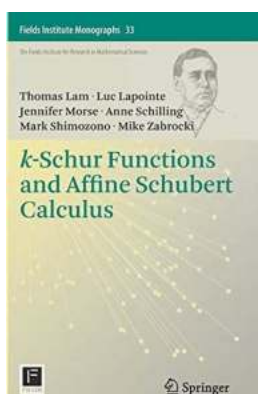
Applications and Significance

The knowledge of Schur Functions and affine Schubert calculus has wide-ranging applications in mathematics and beyond. The ability to analyze intersections of subvarieties and understand the geometry of affine Grassmannians holds immense importance in fields such as algebraic geometry, theoretical physics, quantum mechanics, and computer science.

Moreover, the recent advancements in affine Schubert calculus have opened new doors for researchers to tackle complex problems, create innovative mathematical models, and make groundbreaking discoveries. This book serves as a valuable resource, equipping readers with the tools needed to contribute to these advancements and explore new areas of research.

In , Fields Institute Monographs 33 offers an enlightening journey into the world of Schur Functions and affine Schubert calculus. Through its comprehensive coverage, accessible presentation, and in-depth exploration of key concepts, this publication serves as a valuable resource for both experts and newcomers in the field of mathematics.

Whether you are a researcher, graduate student, or simply an avid math enthusiast, this book is sure to captivate your curiosity and expand your knowledge of these intriguing topics. So, don't miss out on the opportunity to delve into the captivating contents of Fields Institute Monographs 33!



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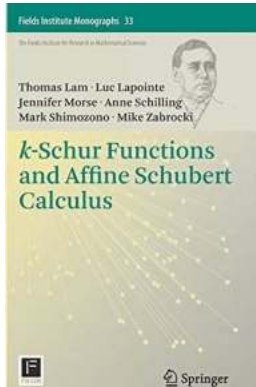
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This book gives an to the very active field of combinatorics of affine Schubert calculus, explains the current state of the art, and states the current open problems. Affine Schubert calculus lies at the crossroads of combinatorics, geometry, and representation theory. Its modern development is motivated by two seemingly unrelated directions. One is the of k -Schur functions in the study of Macdonald polynomial positivity, a mostly combinatorial branch of symmetric function theory. The other direction is the study of the Schubert bases of the (co)homology of the affine Grassmannian, an algebro-topological formulation of a problem in enumerative geometry.

This is the first introductory text on this subject. It contains many examples in Sage, a free open source general purpose mathematical software system, to

entice the reader to investigate the open problems. This book is written for advanced undergraduate and graduate students, as well as researchers, who want to become familiar with this fascinating new field.



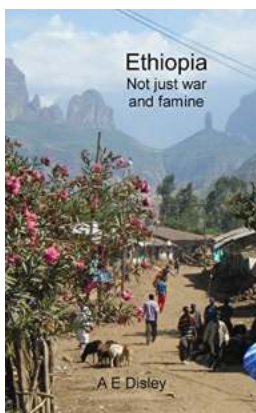
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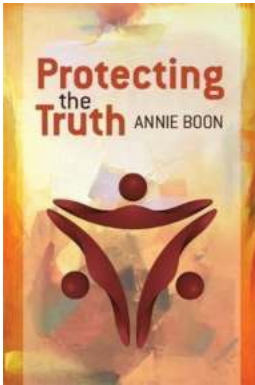
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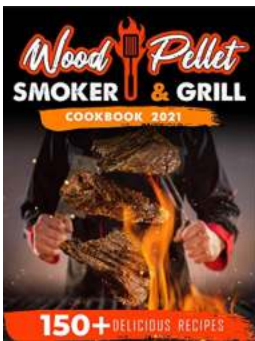
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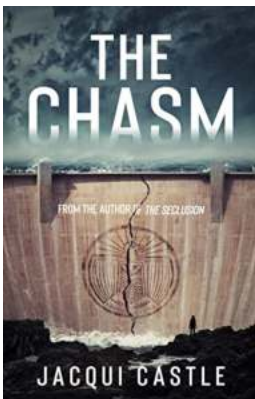
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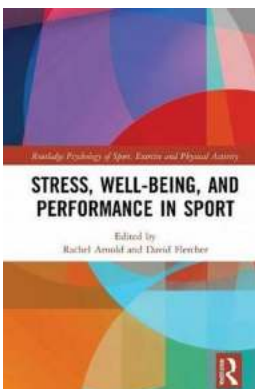
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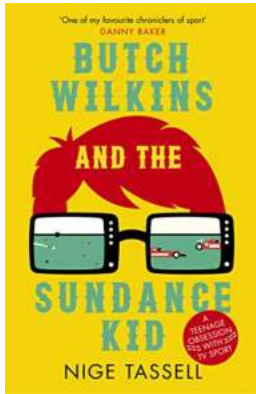
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