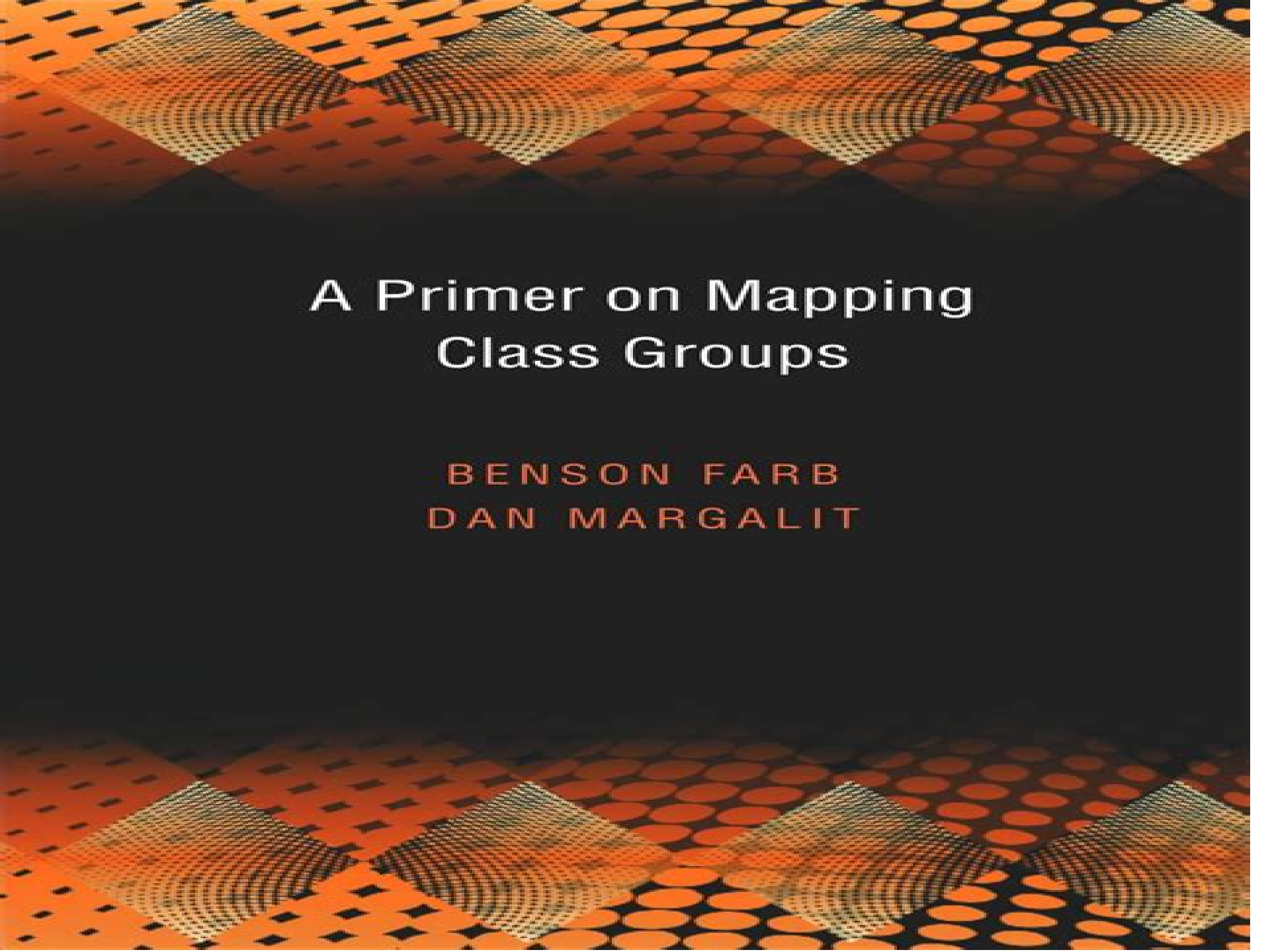


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A Primer on Mapping Class Groups

BENSON FARB
DAN MARGALIT

A Primer On Mapping Class Groups A Primer On Mapping Class Groups

L Cohen



A Primer On Mapping Class Groups A Primer On Mapping Class Groups:

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Problems on Mapping Class Groups and Related Topics Benson Farb, 2006-09-12 The appearance of mapping class groups in mathematics is ubiquitous The book presents 23 papers containing problems about mapping class groups the moduli space of Riemann surfaces Teichmüller geometry and related areas Each paper focusses completely on open problems and directions The problems range in scope from specific computations to broad programs The goal is to have a rich source of problems which have been formulated explicitly and accessibly The book is divided into four parts Part I contains problems on the combinatorial and cohomological group theoretic aspects of mapping class groups and the way in which these relate to problems in geometry and topology Part II concentrates on connections with classification problems in 3 manifold theory the theory of symplectic 4 manifolds and algebraic geometry A wide variety of problems from understanding billiard trajectories to the classification of Kleinian groups can be reduced to differential and synthetic geometry problems about moduli space Such problems and connections

are discussed in Part III Mapping class groups are related both concretely and philosophically to a number of other groups such as braid groups lattices in semisimple Lie groups and automorphism groups of free groups Part IV concentrates on problems surrounding these relationships This book should be of interest to anyone studying geometry topology algebraic geometry or infinite groups It is meant to provide inspiration for everyone from graduate students to senior researchers

Hochschild Cohomology, Modular Tensor Categories, and Mapping Class Groups I Simon Lentner, Svea Nora Mierach, Christoph Schweigert, Yorck Sommerhäuser, 2023-07-25 The book addresses a key question in topological field theory and logarithmic conformal field theory In the case where the underlying modular category is not semisimple topological field theory appears to suggest that mapping class groups do not only act on the spaces of chiral conformal blocks which arise from the homomorphism functors in the category but also act on the spaces that arise from the corresponding derived functors It is natural to ask whether this is indeed the case The book carefully approaches this question by first providing a detailed introduction to surfaces and their mapping class groups Thereafter it explains how representations of these groups are constructed in topological field theory using an approach via nets and ribbon graphs These tools are then used to show that the mapping class groups indeed act on the so called derived block spaces Toward the end the book explains the relation to Hochschild cohomology of Hopf algebras and the modular group

Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. II-IV: Invited Lectures Rajendra Bhatia, Arup Pal, G Rangarajan, V Srinivas, M Vanninathan, 2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress

Office Hours with a Geometric Group Theorist Matt Clay, Dan Margalit, 2017-07-11 Geometric group theory is the study of the interplay between groups and the spaces they act on and has its roots in the works of Henri Poincaré Felix Klein J H C Whitehead and Max Dehn Office Hours with a Geometric Group Theorist brings together leading experts who provide one on one instruction on key topics in this exciting and relatively new field of mathematics It is like having office hours with your most trusted math professors An essential primer for undergraduates making the leap to graduate work the book begins with free groups actions of free groups on trees algorithmic questions about free groups the ping pong lemma and automorphisms of free groups It goes on to cover several large scale geometric invariants of groups including quasi isometry groups Dehn functions Gromov hyperbolicity and asymptotic dimension It also delves into important examples of groups such as Coxeter groups Thompson's groups right angled Artin groups lamplighter groups mapping class groups and braid groups The tone is conversational throughout and the instruction is driven by examples Accessible to students who have taken a first course in abstract algebra Office Hours with a Geometric Group Theorist also features

numerous exercises and in depth projects designed to engage readers and provide jumping off points for research projects

In the Tradition of Thurston III Ken'ichi Ohshika,Athanasios Papadopoulos,2024-03-19 William Thurston's ideas have altered the course of twentieth century mathematics and they continue to have a significant influence on succeeding generations of mathematicians The purpose of the present volume and of the other volumes in the same series is to provide a collection of articles that allows the reader to learn the important aspects of Thurston's heritage The topics covered in this volume include Kleinian groups holomorphic motions earthquakes from the Anti de Sitter point of view the Thurston and Weil Petersson metrics on Teichmüller space 3 manifolds geometric structures dynamics on surfaces homeomorphism groups of 2 manifolds and the theory of orbifolds Moduli Spaces of Riemann Surfaces Benson Farb,Richard Hain,Eduard

Looijenga,2013-08-16 Mapping class groups and moduli spaces of Riemann surfaces were the topics of the Graduate Summer School at the 2011 IAS Park City Mathematics Institute This book presents the nine different lecture series comprising the summer school covering a selection of topics of current interest The introductory courses treat mapping class groups and Teichmüller theory The more advanced courses cover intersection theory on moduli spaces the dynamics of polygonal billiards and moduli spaces the stable cohomology of mapping class groups the structure of Torelli groups and arithmetic mapping class groups The courses consist of a set of intensive short lectures offered by leaders in the field designed to introduce students to exciting current research in mathematics These lectures do not duplicate standard courses available elsewhere The book should be a valuable resource for graduate students and researchers interested in the topology geometry and dynamics of moduli spaces of Riemann surfaces and related topics Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price **Geometric Group Theory** Mladen

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groups This book is a valuable resource for graduate students and researchers interested in geometric group theory Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price Computational Algebraic and Analytic Geometry Mika Seppälä, Emil Volcheck, 2012 This volume contains the proceedings of three AMS Special Sessions on Computational Algebraic and Analytic Geometry for Low Dimensional Varieties held January 8 2007 in New Orleans LA January 6 2009 in Washington DC and January 6 2011 in New Orleans LA Algebraic analytic and geometric methods are used to study algebraic curves and Riemann surfaces from a variety of points of view The object of the study is the same The methods are different The fact that a multitude of methods stemming from very different mathematical cultures can be used to study the same objects makes this area both fascinating and challenging

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