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978-0-521-34985-7 - Automorphisms of Surfaces after Nielsen and Thurston

Andrew J. Casson and Steven A. Bleiler

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London Mathematical Society Student Texts. 9

# Automorphisms of Surfaces after Nielsen and Thurston

Andrew J. Casson, University of California, Berkeley  
and  
Steven A. Bleiler, University of British Columbia



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[More information](#)

## CONTENTS

## Preface

|  |     |
|--|-----|
| 0. Introduction                        | 1   |
| 1. The Hyperbolic Plane $\mathbb{H}^2$ | 3   |
| 2. Hyperbolic structures on surfaces   | 17  |
| 3. Geodesic laminations                | 38  |
| 4. Structure of geodesic laminations   | 60  |
| 5. Surface automorphisms               | 75  |
| 6. Pseudo-Anosov automorphisms         | 89  |
| References                             | 10  |
| Index                                  | 105 |

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[More information](#)

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## Preface

During the Fall of 1982 and Spring of 1983, Andrew Casson gave a course in surface automorphisms at the University of Texas. This book began as my lecture notes from that course. Andrew and I have revised these notes into the present form. With this book we hope not only to give students an introduction to hyperbolic geometry and its applications to low-dimensional topology, but also provide a concise exposition of the Nielsen–Thurston theory of surface automorphisms. The reader should have an understanding of the basic lecture courses in topology and linear algebra. We begin by recalling the structure of the self-homeomorphisms of the torus.