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Título: Geometry And Topology Down Under

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Precio: \$1922.31

Editorial:

Año: 2013

Tema:

Edición: 1ª

Sinopsis

ISBN: 9780821884805

This book contains the proceedings of the conference Geometry & Topology Down Under, held July 11-22, 2011, at the University of Melbourne, Parkville, Australia, in honour of Hyam Rubinstein.

The main topic of the book is low-dimensional geometry and topology. It includes both survey articles based on courses presented at the conferences and research articles devoted to important questions in low-dimensional geometry. Together, these contributions show how methods from different fields of mathematics contribute to the study of 3-manifolds and Gromov hyperbolic groups. It also contains a list of favorite problems by Hyam Rubinstein.

Readership

Graduate students and researchers interested in low-dimensional geometry and topology.

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|D. Calegari -- The ergodic theory of hyperbolic groups

|S. Hong and D. McCullough -- Mapping class groups of 3-manifolds, then and now

|B. H. Bowditch -- Stacks of hyperbolic spaces and ends of 3-manifolds

|E. Carberry -- Harmonic maps and integrable systems

|H. Rubinstein -- Some of Hyam's favourite problems

Research papers |D. Bachman, R. Derby-Talbot, and E. Sedgwick -- Almost normal surfaces with boundary

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!K. Ichihara and I. D. Jong -- Seifert fibered surgery and Rasmussen invariant

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