



# Grupos de difeomorfismos del círculo

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**Abstract.** Group actions on the circle is a broad and active area in mathematics having many relations with geometry, topology, 1-dimensional dynamics, geometric group theory, and rigidity theory. This book covers most of the classical as well as some recent aspects of the theory, mostly under smoothness assumptions for the action. Some of the topics included here are the recent generalizations of Denjoy and Sacksteder Theorems in regularity smaller than  $C^2$ , and several algebraic obstructions for smooth group actions on the circle.