



# Geometry, Topology and Dynamics of Character Varieties

By William Goldman, Caroline Series, Ser Peow Tan

World Scientific Publishing Co Pte Ltd. Hardback. Book Condition: new. BRAND NEW, Geometry, Topology and Dynamics of Character Varieties, William Goldman, Caroline Series, Ser Peow Tan, This volume is based on lectures given at the highly successful three-week Summer School on "Geometry, Topology and Dynamics of Character Varieties" held at the National University of Singapore's Institute for Mathematical Sciences in July 2010. Aimed at graduate students in the early stages of research, the edited and refereed articles comprise an excellent introduction to the subject of the program, much of which is otherwise available only in specialized texts. Topics include hyperbolic structures on surfaces and their degenerations, applications of ping-pong lemmas in various contexts, introductions to Lorenzian and complex hyperbolic geometry, and representation varieties of surface groups into  $PSL(2, \mathbb{R})$  and other semi-simple Lie groups. This volume will serve as a useful portal to students and researchers in a vibrant and multi-faceted area of mathematics.



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