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   Titolo   Ergodic Theory and Negative Curvature [e-book] : CIRM Jean-Morlet
                           Chair, Fall 2013 / edited by Boris Hasselblatt

   ISBN   9783319430591
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   Descrizione fisica   1 online resource (vii, 328 pages) : illustrations (some color)

   Collana   Lecture notes in mathematics, 0075-8434 ; 2164

   Classificazione   AMS 37-06
                           LC QA313

   Altri autori (Persone) Hasselblatt, Boris

   Disciplina   515.48

   Soggetti   Ergodic theory - Congresses
                           Dynamics

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Sommario/riassunto   Focussing on the mathematics related to the recent proof of ergodicity
                           of the (Weil–Petersson) geodesic flow on a nonpositively curved space
                           whose points are negatively curved metrics on surfaces, this book
                           provides a broad introduction to an important current area of research.
                           It offers original textbook-level material suitable for introductory or
                           advanced courses as well as deep insights into the state of the art of
                           the field, making it useful as a reference and for self-study. The first
                           chapters introduce hyperbolic dynamics, ergodic theory and geodesic
                           and horocycle flows, and include an English translation of Hadamard's
                           original proof of the Stable-Manifold Theorem. An outline of the
                           strategy, motivation and context behind the ergodicity proof is
                           followed by a careful exposition of it (using the Hopf argument) and of
                           the pertinent context of Teichmüller theory. Finally, some
                           complementary lectures describe the deep connections between
                           geodesic flows in negative curvature and Diophantine approximation