

[Reitberger, H.](#)

Geometrische Topologie, Dynamik und das Werk von William P. Thurston. (German)

[Zbl 0543.57004](#)

Jahrb. Überblicke Math. 1984, Math. Surv. 17, 221-227 (1984).

[For the entire collection see [Zbl 0535.00005](#).]

A survey of the work of Thurston, illustrated by comparisons with the theory of surfaces. The author complains rightly that most of the recent works of Thurston is not in the public domain and therefore not open to public scrutiny in an area that abounds with wrong proofs (Dehn's Lemma!), wrong counterexamples (Whitehead), etc.

Reviewer: [H.Guggenheimer](#)

MSC:

- [57-03](#) History of manifolds and cell complexes
- [01A65](#) Development of contemporary mathematics
- [57N10](#) Topology of general 3-manifolds (MSC2010)
- [57N05](#) Topology of the Euclidean 2-space, 2-manifolds (MSC2010)
- [57R50](#) Differential topological aspects of diffeomorphisms
- [37D99](#) Dynamical systems with hyperbolic behavior
- [57R30](#) Foliations in differential topology; geometric theory
- [30F40](#) Kleinian groups (aspects of compact Riemann surfaces and uniformization)

Keywords:

diffeomorphisms of surfaces; Pseudo-Anosov diffeomorphisms; hyperbolicity of atoroidal 3-manifolds; dynamics of Kleinian groups. Thurston, W. P; theory of surfaces; Dehn's Lemma