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Abstract:	In this thesis, we study the Teichmüller space of compact Riemann surfaces — the space of marked compact Riemann surfaces. First, we study a topological structure on the Teichmüller space of higher genus surfaces S_g ($g \geq 2$) through its description separately through Fenchel-Nielsen coordinates and as the space of discrete faithful representation of $\pi_1(S_g)$ into $\text{Isom}(\mathbb{H}^2) \cong \text{PSL}(2, \mathbb{R})$. Later we introduce the description of the Teichmüller space using quasiconformal maps, which yields the Teichmüller metric on the Teichmüller space. Lastly, we briefly have a look at the Thurston compactification of the Teichmüller space.
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