



# Handbook of Complex Analysis: Geometric Function Theory: 2

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Geometric Function Theory is that part of Complex Analysis which covers the theory of conformal and quasiconformal mappings.

Beginning with the classical Riemann mapping theorem, there is a lot of existence theorems for canonical conformal mappings. On the other side there is an extensive theory of qualitative properties of conformal and quasiconformal mappings, concerning mainly a priori estimates, so called distortion theorems (including the Bieberbach conjecture with the proof of the Branges). Here a starting point was the classical Schwarz lemma, and then Koebe's distortion theorem.

There are several connections to mathematical physics, because of the relations to potential theory (in the plane). The Handbook of Geometric Function Theory contains also an article about constructive methods and further a Bibliography including applications eg: to electrostatic problems, heat conduction, potential flows (in the plane).

- A collection of independent survey articles in the field of Geometric Function Theory
- Existence theorems and qualitative properties of conformal and quasiconformal mappings
- A bibliography, including many hints to applications in electrostatics, heat conduction, potential flows (in the plane).

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