

MAPPINGS OF INTEGRABLE DIRECTIONAL DILATATIONS

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We establish new distortion estimates for the conformal module as well as for the α -moduli of families of k -dimensional surfaces in \mathbb{R}^n , $1 \leq k \leq n - 1$, under quasiconformal and generalized quasiconformal mappings (that are quasiconformal in certain integral mean). This relies on the local directional dilatations. The estimates are sharp.

Some related questions concerning bilipschitz and Hölder continuity are also discussed.