

## Handbook Of Conformal Mapping With Computer Aided Visualization

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Ivanov, Handbook of Conformal Mapping with Computer-Aided ...

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For any point  $z \in D$  for which  $f'(z) \neq 0$ , this mapping is conformal, that is, it preserves the angle between two differentiable arcs. Example: Let  $D$  be the rectangular region in the  $z$  plane bounded by  $x = 0$ ,  $y = 0$ ,  $x = 2$  and  $y = 1$ .

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Conformal mappings can be effectively used for constructing solutions to the Laplace equation on complicated planar domains that are used in fluid mechanics, aerodynamics, thermomechanics, electrostatics, elasticity, and elsewhere. We assume the reader is familiar with the basics of complex numbers and complex arith-

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conformal maps numerically, [8] and [12], together with [19] and [16] list a wide collection of numerical methods. And each method produces a mapping function, which, more or less accurately, approximates one of the possible functions that the Riemann mapping theorem deal with for  $R$  and

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