



Computational Conformal Mapping

Prem Kythe

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This book evolved out of a graduate course given at the University of New Orleans in 1997. The class consisted of students from applied mathematics and engineering.

They had the background of at least a first course in complex

analysis with emphasis on conformal mapping and Schwarz-Christoffel transformation, a first course in numerical analysis, and good to excellent working knowledge of Mathematica*

with additional knowledge of some programming languages. Since the class had no background

in Integral Equations, the chapters involving integral equation formulations were not covered in detail, except for

Symm's integral equation which appealed to a subset of students who had some training in boundary element

methods. Mathematica was mostly used for computations. In fact, it simplified numerical integration and

other operations very significantly, which would have otherwise involved programming in Fortran, C,

or other language of choice, if classical numerical methods were attempted. Overview Exact solutions of

boundary value problems for simple regions, such as circles, squares or annuli, can be determined with

relative ease even where the boundary conditions are rather complicated.

Green's functions for such simple regions are known. However, for regions with complex structure the solution of a boundary value problem often becomes more difficult, even for a simple

problem such as the Dirichlet problem. One approach to solving these difficult problems is to conformally

transform a given multiply connected region onto *Mathematica is a registered trade mark of Wolfram

Research, Inc. ix x PREFACE simpler canonical regions. This will, however, result in change not only in the

region and the associated boundary conditions but also in the governing differential equation. As compared

to the simply connected regions, conformal mapping of multiply connected regions suffers from severe

limitations, one of which is the fact that equal connectivity of regions is not a sufficient condition to effect a

reciprocally connected map of one region onto another.

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