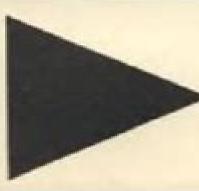
# Solutions of Laplace's Equation

D R Bland



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# **Solutions Of Laplaces Equation**

**H Kauffman** 

#### **Solutions Of Laplaces Equation:**

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presents a new efficient numerical analytical method for solving the Laplace equation on an arbitrary polygon This method called the approximate block method overcomes indicated difficulties and has qualitatively more rapid convergence than well known difference and variational difference methods The block method also solves the complicated problem of approximate conformal mapping of multiply connected polygons onto canonical domains with no preliminary information required The high precision results of calculations carried out on the computer are presented in an abundance of tables substantiating the exponential convergence of the block method and its strong stability concerning the rounding off of errors **Solutions of La Place's equation in spherical coordinates** Jay Vernon Justice, 1968 **Some Harmonic Solutions of Laplace's Equation** Fred A. Beeler, 1934 *Bounds for solutions of Laplace's equation satisfying mixed conditions* Carlo Pucci, 1953

The Numerical Solution of Laplace's Equation on ORDVAC David Young, 1953 **Improved Solutions to Laplace's Equation by the Boundary Integral Method** Julian Gold, 1991 Numerical Scheme for the Solution to Laplace's Equation Using Local Conformal Mapping Techniques Cynthia Anne Sabonis, 2014 Abstract This paper introduces a method to determine the pressure in a fixed thickness smooth periodic domain namely a lead over pleat cartridge filter Finding the pressure within the domain requires the numerical solution of Laplace s equation the first step of which is approximating by interpolation the curved portions of the filter to a circle in the xy plane A conformal map is then applied to the filter transforming the region into a rectangle in the uv plane A finite difference method is introduced to numerically solve Laplace's equation in the rectangular domain There are currently methods in existence to solve partial differential equations on non regular domains In a method employed by Monchmeyer and Muller a scheme is used to transform from cartesian to spherical polar coordinates Monchmeyer and Muller stress that for non linear domains extrapolation of existing cartesian difference schemes may produce incorrect solutions and therefore a volume centered discretization is used A difference scheme is then derived that relies on mean values This method has second order accuracy Rosenfeld Moshe Kwak Dochan 1989 The method introduced in this paper is based on a 7 point stencil which takes into account the unequal spacing of the points From all neighboring pairs a linear system of equations is constructed which takes into account the periodic domain This method is solved by standard iterative methods The solution is then mapped back to the original domain with second order accuracy The method is then tested to obtain a solution to a domain which satisfies y sin x at the center a shape similar to that of a lead over pleat cartridge filter As a result a model for the pressure distribution within the filter is obtained

Solution of Laplace's Equation by Operational Methods Chimanlal P. Patel,1965 Approximate Solutions to Laplace's Equation Sebastian F. Catalano,1956 The Numerical Solution of Laplace's Equation George Shortley,Royal Weller,1938 Solutions of Laplace's Equation in Terms of Parabolic Cylinder Functions Bruce Gill Secrest,1962

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