

Recent developments in the Trefftz method for finite element and boundary element applications

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In 1926 E. Trefftz published a paper about a variational formulation which utilizes boundary integrals. Almost half a century later researchers became interested again in the ideas of Trefftz when the potential advantage of the Trefftz-method for an efficient use in numerical application on a computer was recognized. The concept of Trefftz can be used both for finite element and boundary element applications. A crucial ingredient of the Trefftz-method is a set of linearly independent trial functions which *a priori* satisfy the governing differential equations under consideration. In this paper an overview of some recent developments to construct trial functions for the Trefftz-method in a systematic manner is given. Using different types of approximation functions (singular or non-singular) we can obtain very accurate finite element and boundary element algorithms.

Key words: Trefftz method, finite elements, boundary elements, thick plate bending, three-dimensional elasticity, complex functions, Cauchy-integrals.

1 INTRODUCTION

Trefftz presented his method in 1926¹ as an alternative to the Ritz-method. The basic idea of the Trefftz method is to use trial functions which satisfy *a priori* the governing differential equations. After substituting these trial functions into the according variational formulation, we get an expression, which contains only boundary integrals. In the classical Trefftz method the free parameters of the Trefftz-trial functions are obtained from the variational statement, in which the boundary conditions are incorporated. In his original work, Trefftz used harmonic polynomials for the solution of a problem associated to the Laplace-equation. So in the beginning the Trefftz-trial functions were non-singular functions.

It is worth mentioning that in his original 1926 paper¹ Trefftz already proposed in an example (for an L-shaped domain) to divide the solution domain into subdomains and to assume trial functions for each subdomain. For the coupling of the subdomains Trefftz proposed to use additional trial functions along the common boundaries of the subdomains. Therefore Trefftz's paper had already important ideas for a finite element concept. Basically two things were missing to get from Trefftz's paper to Trefftz-type finite elements (e.g. Refs 2–17):

(i) the availability of powerful computers

(ii) shape functions on the subdomain boundaries.

Since these ingredients were missing at the time of Trefftz his method could not be fully utilized for a long time. Many years after the ideas of the Trefftz method had been published in 1926, the method was used in computer applications. Some of the early numerical applications of the Trefftz method dealt with the coupling of boundary solution procedures with finite elements, see e.g. Stein,¹⁸ Ruoff,¹⁹ Zienkiewics, Kelly & Bettess.²⁰

Further research led to different techniques of obtaining symmetric finite element matrices by using functions in the sense of Trefftz and evaluating integrals along the finite element edges, see e.g. Jirousek,^{2–4} Piltner,^{10–14} Zienkiewics & Taylor.¹⁷ Examples for those finite elements which utilize variational formulations involving only boundary integrals are elements which can contain cracks, holes or sharp corners. These types of elements can be obtained from a mixed variational formulation. Often a Hellinger–Reissner variational formulation is used for such finite elements. Finite elements based on a Hellinger–Reissner formulation and stress fields satisfying the equilibrium equations are often called hybrid elements. For hybrid elements we use two independently assumed fields in the variational formulation. From the literature on hybrid elements especially the pioneering work of Pian^{21–24} has to be emphasized.

In order to describe those finite elements for which the

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