



# Boundary element for plate bending analysis

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This paper is related to the applications of BEM to practical plate bending problems in engineering. Some aspects of the boundary formulations are shown, describing particular characteristics that can be considered to improve numerical solutions. Several different ways of defining the boundary element system of equations are proposed. Comparisons among them are also shown emphasizing some interesting behaviours.

## 1 INTRODUCTION

Several different boundary element approaches have already been proposed for the analysis of plates in bending. Since the first article dedicated to this subject, written in 1968,<sup>1</sup> many other works have already been elaborated to confirm the efficiency of the technique, even when applied to plates with more complex shape and boundary or internal conditions.

This first formulation<sup>1</sup> was based on the so-called indirect methods, where the integral equations do not relate to the natural variables of the problem, such as deflections, rotations, bending or twisting moments and shear forces. Instead, they involve some source distribution densities, apparently without any physical meaning. Since this work, other authors have followed the same bases to propose alternative indirect schemes. Among them are Altiero & Sikarskić<sup>2</sup> and Wu & Altiero.<sup>3</sup>

The natural variables appearing in the integral equations gave origin to the direct methods applied to plate bending, as in Bezine,<sup>4</sup> Stern<sup>5</sup> and Tottenham.<sup>6</sup> They established the main bases of the boundary element technique for plate bending, nowadays used as a standard tool. From two types of integral representations, one for displacements and another for rotations, both involving the natural variables of the problem, a sufficient number of algebraic equations can be found and the numerical solution achieved.

Throughout the last decade several works have been written, suggesting different ways of obtaining the final system of equations. The majority of them were developed to improve the numerical solution comparing

boundary element values with other analytical or numerical responses for simple shape plates. In this period it is also important to point out the relevant works produced by Stern & Lin<sup>7</sup> and Guoshu & Mukherjee.<sup>8</sup> Applications in civil engineering or other engineering fields, where plates in bending usually appear in more complex shapes and boundary or internal conditions, were investigated very little.

This paper is an attempt to discuss several possibilities of using boundary elements for plate bending analysis within the context of Kirchhoff's hypotheses. Whenever possible, actual applications will be taken to justify the recommended approaches. Throughout the paper some important aspects of the use of boundary elements to analyse plates in bending will be discussed. The choice of singular points associated with the type of equations and element selections is among the studied aspects.

## 2 BOUNDARY ELEMENTS FOR PLATE BENDING

As it is well known, the direct formulation of boundary elements for Kirchhoff's plates can be derived from a reciprocity relation written in terms of bending moments and curvatures. Thus, for a point 's' belonging to the plate of domain  $\Omega$ , inserted into an infinite region exhibiting the same stiffness parameters seen in  $\Omega$ , one can write,

$$\int_{\Omega} m_{ij}(x)w_{ij}^*(p, x) d\Omega(x) = \int_{\Omega} w_{ij}(x)m_{ij}^*(p, x) d\Omega(x) \quad (1)$$

where  $w_{ij}$  and  $m_{ij}$  are curvatures and bending moment tensors respectively, for the plate under analysis;  $w_{ij}^*$  and  $m_{ij}^*$  are fundamental solution tensors given in terms of curvatures and bending moments due to a unit load applied at 'p' placed anywhere in the infinite domain.

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